



DEPARTMENT OF INFORMATION TECHNOLOGY  
CENTRE FOR DIPLOMA STUDIES

## DAT 20903 PRINCIPLE OF DOT NET PROGRAMMING PROBLEM BASED TASK

|                           |                                                                                                                                        |                  |                |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| <b>*SERIES NUMBER</b>     | <input type="checkbox"/> PBT 1 <input checked="" type="checkbox"/> PBT 2 <input type="checkbox"/> PBT 3 <input type="checkbox"/> PBT 4 |                  |                |
| <b>TITLE</b>              | INTERACTIVE VB APPLICATION DEVELOPMENT                                                                                                 |                  |                |
| <b>QUESTION</b>           | Volume of Geometric Shapes                                                                                                             |                  |                |
| <b>DATELINE</b>           | 28 MARCH 2018                                                                                                                          |                  |                |
| <b>YEAR AND PROGRAM</b>   | 2 DAT                                                                                                                                  |                  |                |
| <b>STUDENTS DETAIL</b>    | <b>STUDENT NAME</b>                                                                                                                    | <b>MATRIX NO</b> | <b>SECTION</b> |
|                           | 1. NUR RASYIDAH BINTI ROSLAN                                                                                                           | AA162233         | 1              |
|                           | 2. NUR HIDAYAH BINTI HAMRI                                                                                                             | AA160553         | 1              |
|                           | 3. NORSYAZWANIE BINTI NORMAZALI                                                                                                        | AA162269         | 1              |
| <b>TOTAL MARKS</b>        |                                                                                                                                        |                  |                |
| <b>LECTURER COMMENTS:</b> |                                                                                                                                        |                  |                |
|                           |                                                                                                                                        |                  |                |

Notes: 1. \*Please tick “√” at the appropriate box  
2. Use blue paper for odd section and pink for even section

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## **Role of group Member**

| <b>Member's name</b> | <b>Role</b>                                      |
|----------------------|--------------------------------------------------|
| 1) NORSYAZWANIE      | Complete Phase 1 and Phase 2(analyze and design) |
| 2) NUR RASYIDAH      | Complete Phase 3(Implementation)                 |
| 3) NUR HIDAYAH       | Complete a Report                                |

## Phase 1 : Analyze

### 1.1 List of **input** or data to be entered:

#### Volume of Cylinder

- Radius
- Height

#### Volume of Cone

- Radius
- Height

#### Volume of Pyramid

- Radius
- Height
- Length

### 1.2 List of desired **output** or results:

- Volume of Cylinder
- Volume of Cone
- Volume of Pyramid

### 1.3 List of required **process** to obtain the output:

#### Volume of Cylinder

- $3.142 \times \text{radius}^2 \times \text{height}$

#### Volume of Cone

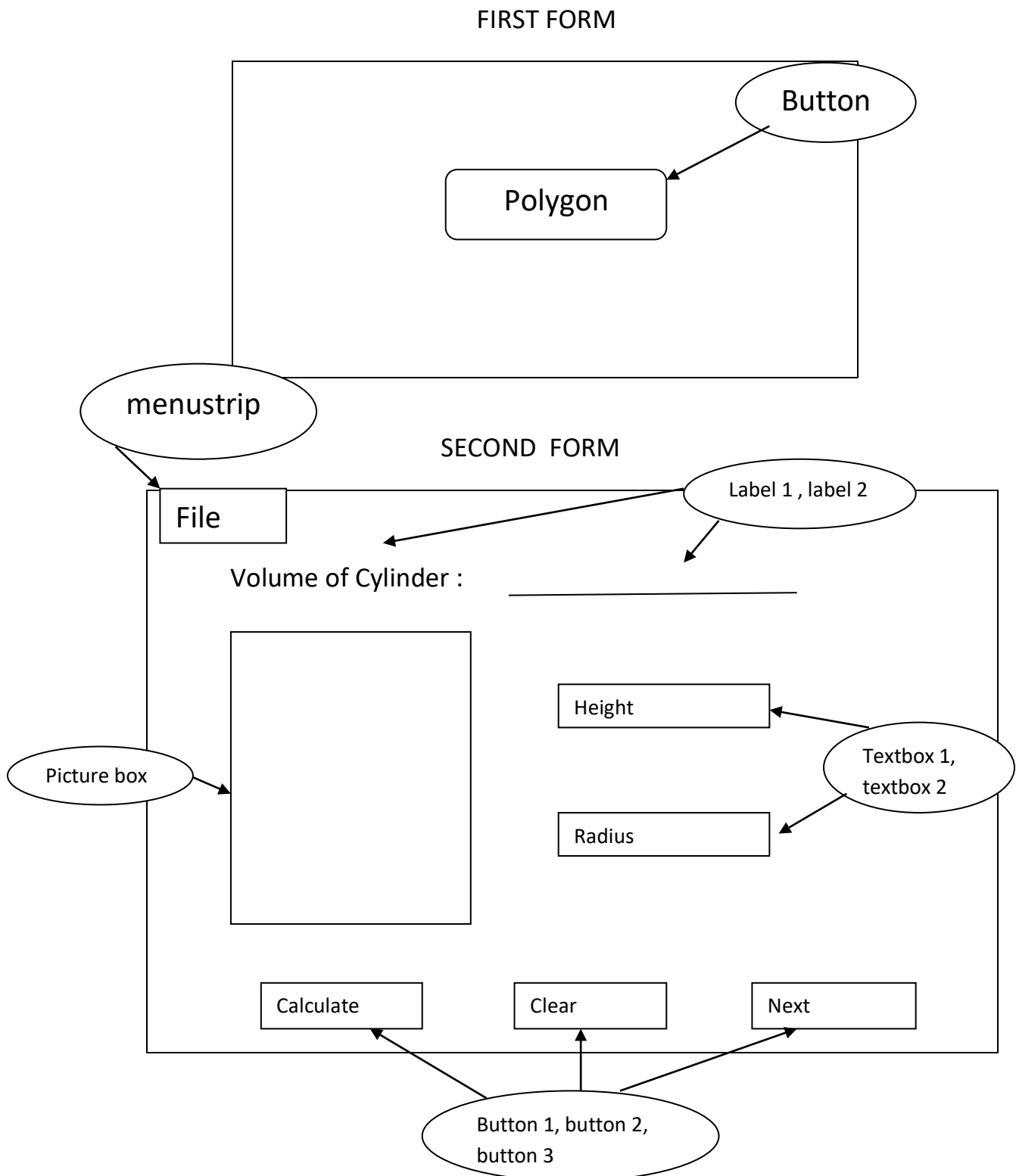
- $3.142 \times \text{radius}^2 \times \text{height} / 3$

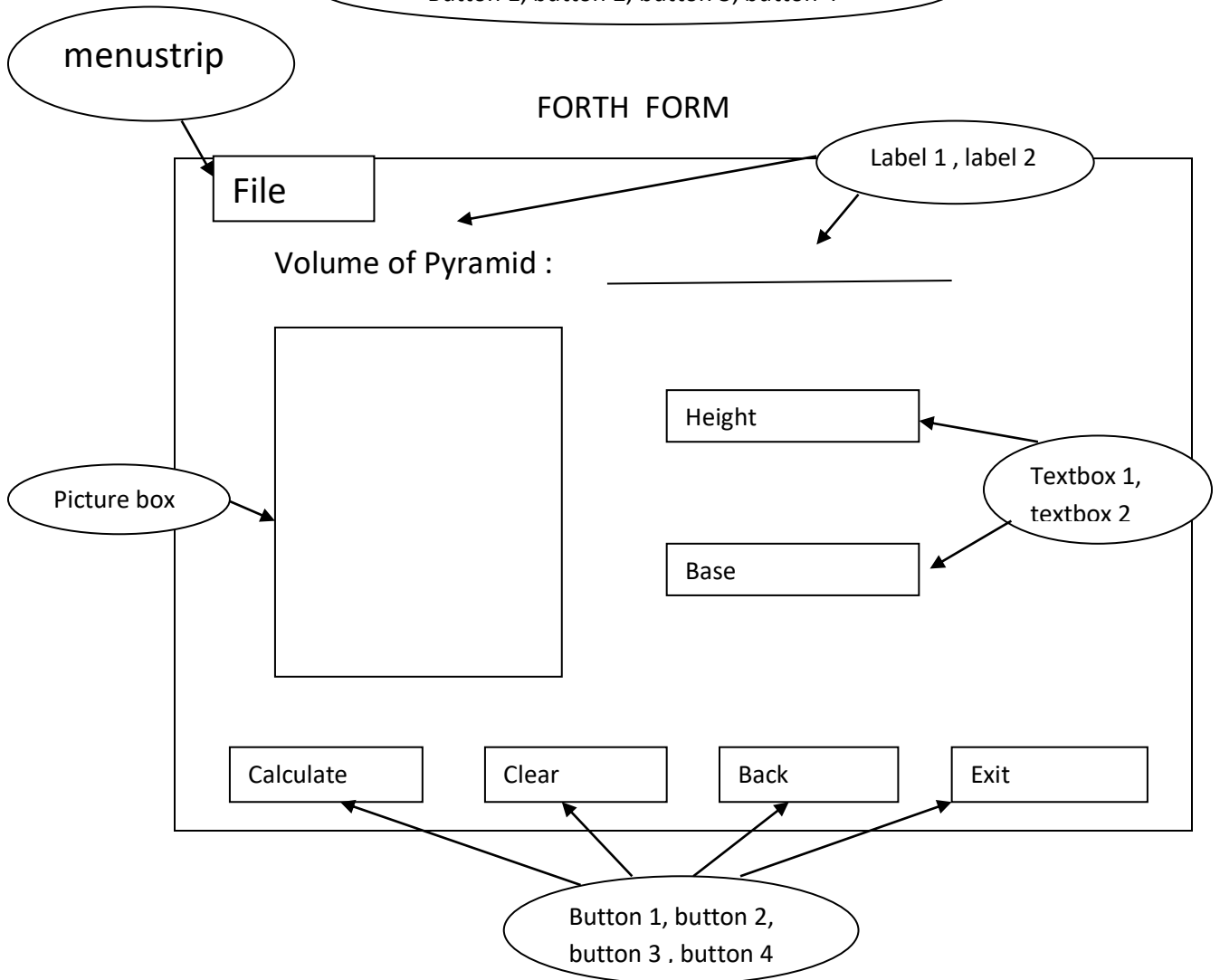
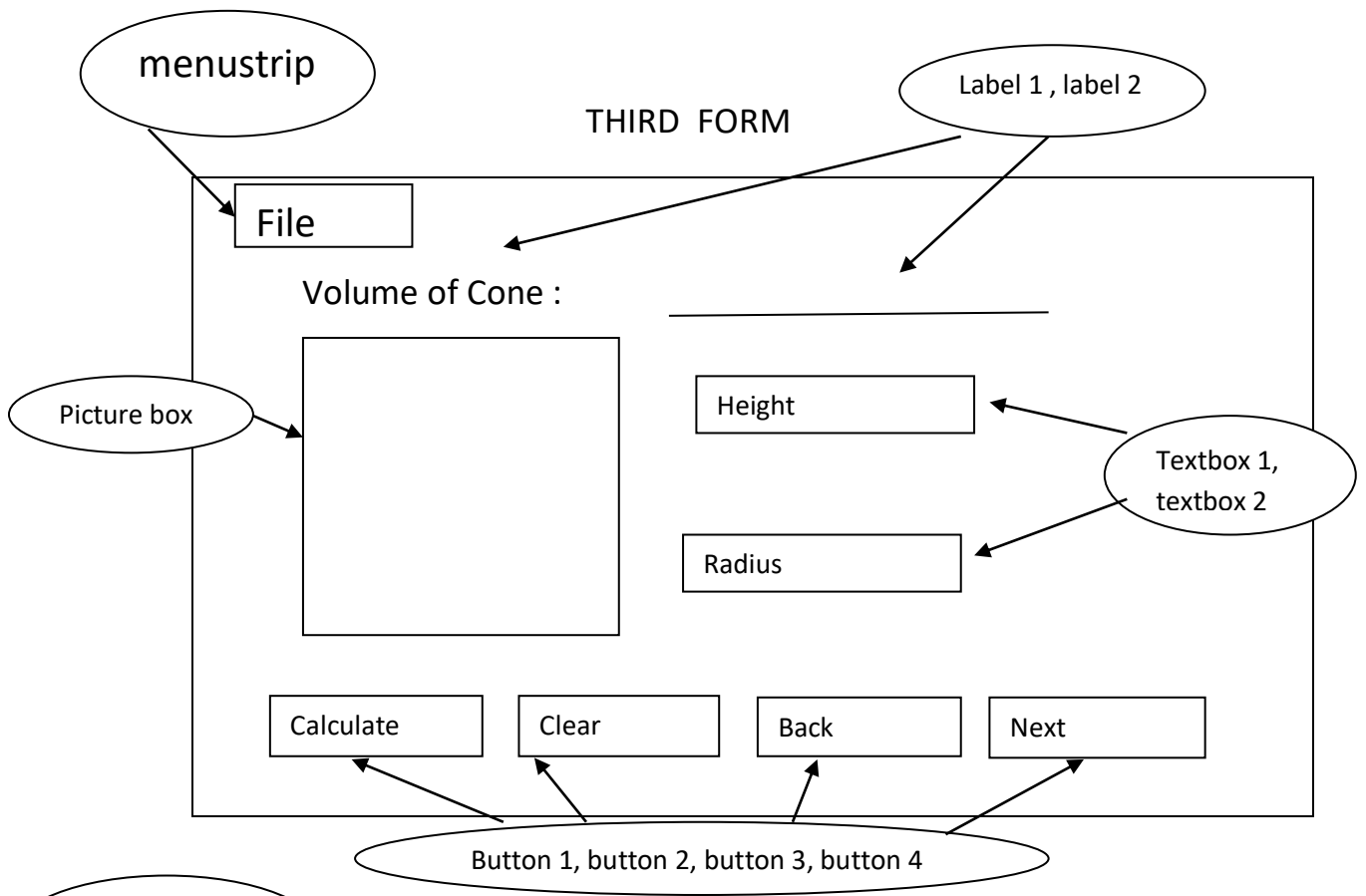
#### Volume of Pyramid

- $(\text{Base}^2 \times \text{height}) / 3$

## Phase 2 : Design

### 2.1 Sketch of Graphical User Interface (GUI)





## 2.2 List basic properties of each object used in the GUI

| Object                                                                                                                                                                                                    | Properties                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form 1</b><br><br><div>Button</div>                                                                                                                                                                    | Name : frmFirst<br><br><div> Name : btnPolygon<br/> Text : Polygon </div>                                                                                                                                                                                                                                                                                                                        |
| <b>Form 2</b><br><br><div>menustrip</div> <div>Label 1</div> <div>Label 2</div> <div>Textbox1</div> <div>Textbox2</div> <div>Picturebox</div> <div>Button 1</div> <div>Button 2</div> <div>Button 3</div> | Name : frmSecond<br><br><div> Name : menuFile<br/> Text : File </div> <div> Name:lblCylinder<br/> Text:Volume Of Cylinder </div> <div> Name: lblAns Cylinder </div> <div> Name:txtheight </div> <div> Name:txtradius </div> <div> Name:Picturebox1 </div> <div> Name:btnCalculate<br/> Text:Calculate </div> <div> Name:btnClear<br/> Text:Clear </div> <div> Name:btnNext<br/> Text:Next </div> |

|                                                                                                                                                                                                                                                                                                        |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|---------|----------|----------|------------|----------|----------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------|--------------------|-----------------|-----------------|-------------------|---------------------------------------|-------------------------------|-----------------------------|-----------------------------|
| <div>Form 3</div> <table><tr><td>menustrip</td></tr><tr><td>Label 1</td></tr><tr><td>Label 2</td></tr><tr><td>Textbox1</td></tr><tr><td>Textbox2</td></tr><tr><td>PictureBox</td></tr><tr><td>Button 1</td></tr><tr><td>Button 2</td></tr><tr><td>Button 3</td></tr><tr><td>Button 4</td></tr></table> | menustrip | Label 1 | Label 2 | Textbox1 | Textbox2 | PictureBox | Button 1 | Button 2 | Button 3 | Button 4 | <div>Name : frmThird</div> <table><tr><td>Name : menuFile<br/>Text : File</td></tr><tr><td>Name: lblCone<br/>Text: Volume Of Cone</td></tr><tr><td>Name: lblAns Cone</td></tr><tr><td>Name: txtheight</td></tr><tr><td>Name: txtradius</td></tr><tr><td>Name: PictureBox1</td></tr><tr><td>Name: btnCalculate<br/>Text: Calculate</td></tr><tr><td>Name: btnClear<br/>Text: Clear</td></tr><tr><td>Name: btnBack<br/>Text: Back</td></tr><tr><td>Name: btnNext<br/>Text: Next</td></tr></table>  | Name : menuFile<br>Text : File | Name: lblCone<br>Text: Volume Of Cone       | Name: lblAns Cone  | Name: txtheight | Name: txtradius | Name: PictureBox1 | Name: btnCalculate<br>Text: Calculate | Name: btnClear<br>Text: Clear | Name: btnBack<br>Text: Back | Name: btnNext<br>Text: Next |
| menustrip                                                                                                                                                                                                                                                                                              |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Label 1                                                                                                                                                                                                                                                                                                |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Label 2                                                                                                                                                                                                                                                                                                |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Textbox1                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Textbox2                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| PictureBox                                                                                                                                                                                                                                                                                             |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 1                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 2                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 3                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 4                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name : menuFile<br>Text : File                                                                                                                                                                                                                                                                         |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: lblCone<br>Text: Volume Of Cone                                                                                                                                                                                                                                                                  |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: lblAns Cone                                                                                                                                                                                                                                                                                      |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: txtheight                                                                                                                                                                                                                                                                                        |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: txtradius                                                                                                                                                                                                                                                                                        |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: PictureBox1                                                                                                                                                                                                                                                                                      |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: btnCalculate<br>Text: Calculate                                                                                                                                                                                                                                                                  |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: btnClear<br>Text: Clear                                                                                                                                                                                                                                                                          |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: btnBack<br>Text: Back                                                                                                                                                                                                                                                                            |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: btnNext<br>Text: Next                                                                                                                                                                                                                                                                            |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| <div>Form 4</div> <table><tr><td>Menustrip</td></tr><tr><td>Label 1</td></tr><tr><td>Label 2</td></tr><tr><td>Textbox1</td></tr><tr><td>Textbox2</td></tr><tr><td>PictureBox</td></tr><tr><td>Button 1</td></tr><tr><td>Button 2</td></tr><tr><td>Button 3</td></tr><tr><td>Button 4</td></tr></table> | Menustrip | Label 1 | Label 2 | Textbox1 | Textbox2 | PictureBox | Button 1 | Button 2 | Button 3 | Button 4 | <div>Name : frmForth</div> <table><tr><td>Name : menuFile<br/>Text : File</td></tr><tr><td>Name: lblPyramid<br/>Text: Volume of Pyramid</td></tr><tr><td>Name:lblAnsPyramid</td></tr><tr><td>Name: txtheight</td></tr><tr><td>Name: txtbase</td></tr><tr><td>Name: PictureBox1</td></tr><tr><td>Name: btnCalculate<br/>Text: Calculate</td></tr><tr><td>Name: btnClear<br/>Text: Clear</td></tr><tr><td>Name:btnBack<br/>Text:Back</td></tr><tr><td>Name:btnExit<br/>Text:Exit</td></tr></table> | Name : menuFile<br>Text : File | Name: lblPyramid<br>Text: Volume of Pyramid | Name:lblAnsPyramid | Name: txtheight | Name: txtbase   | Name: PictureBox1 | Name: btnCalculate<br>Text: Calculate | Name: btnClear<br>Text: Clear | Name:btnBack<br>Text:Back   | Name:btnExit<br>Text:Exit   |
| Menustrip                                                                                                                                                                                                                                                                                              |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Label 1                                                                                                                                                                                                                                                                                                |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Label 2                                                                                                                                                                                                                                                                                                |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Textbox1                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Textbox2                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| PictureBox                                                                                                                                                                                                                                                                                             |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 1                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 2                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 3                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Button 4                                                                                                                                                                                                                                                                                               |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name : menuFile<br>Text : File                                                                                                                                                                                                                                                                         |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: lblPyramid<br>Text: Volume of Pyramid                                                                                                                                                                                                                                                            |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name:lblAnsPyramid                                                                                                                                                                                                                                                                                     |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: txtheight                                                                                                                                                                                                                                                                                        |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: txtbase                                                                                                                                                                                                                                                                                          |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: PictureBox1                                                                                                                                                                                                                                                                                      |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: btnCalculate<br>Text: Calculate                                                                                                                                                                                                                                                                  |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name: btnClear<br>Text: Clear                                                                                                                                                                                                                                                                          |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name:btnBack<br>Text:Back                                                                                                                                                                                                                                                                              |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |
| Name:btnExit<br>Text:Exit                                                                                                                                                                                                                                                                              |           |         |         |          |          |            |          |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                             |                    |                 |                 |                   |                                       |                               |                             |                             |

## 2.3 Algorithm for each required events as require action to be taken

### 2.3.1 ) In The First Form :

#### 2.3.1.1 ) Event Click For btnCalculate

- Enter into the program using polygon button

### 2.3.2 ) In The Second Form :

#### 2.3.2.1) Event Click For btnCalculate .

- $3.142 \times \text{radius}^2 \times \text{height}$

#### 2.3.2.2) Event Click For btnClear

- Clear the calculation using Clear method

#### 2.3.2.3) Event Click For btnNext

- Go to the next form

### 2.3.3 ) In The Third Form :

#### 2.3.3.1) Event Click For btnCalculate .

- $3.142 \times \text{radius}^2 \times \text{height} / 3$

#### 2.3.3.2) Event Click For btnClear

- Clear the calculation using Clear method

#### 2.3.3.3) Event Click For btnBack

- Go to the previous form

#### 2.3.3.4) Event Click For btnNext

- Go to the next form

.

#### 2.3.4 ) In The Forth Form :

##### 2.3.4.1) Event Click For btnCalculate .

- $(\text{Base}^2 \times \text{height})/3$

##### 2.3.4.2) Event Click For btnClear

- Clear the calculation using Clear method

##### 2.3.4.3) Event Click For btnBack

- Go to the previous form

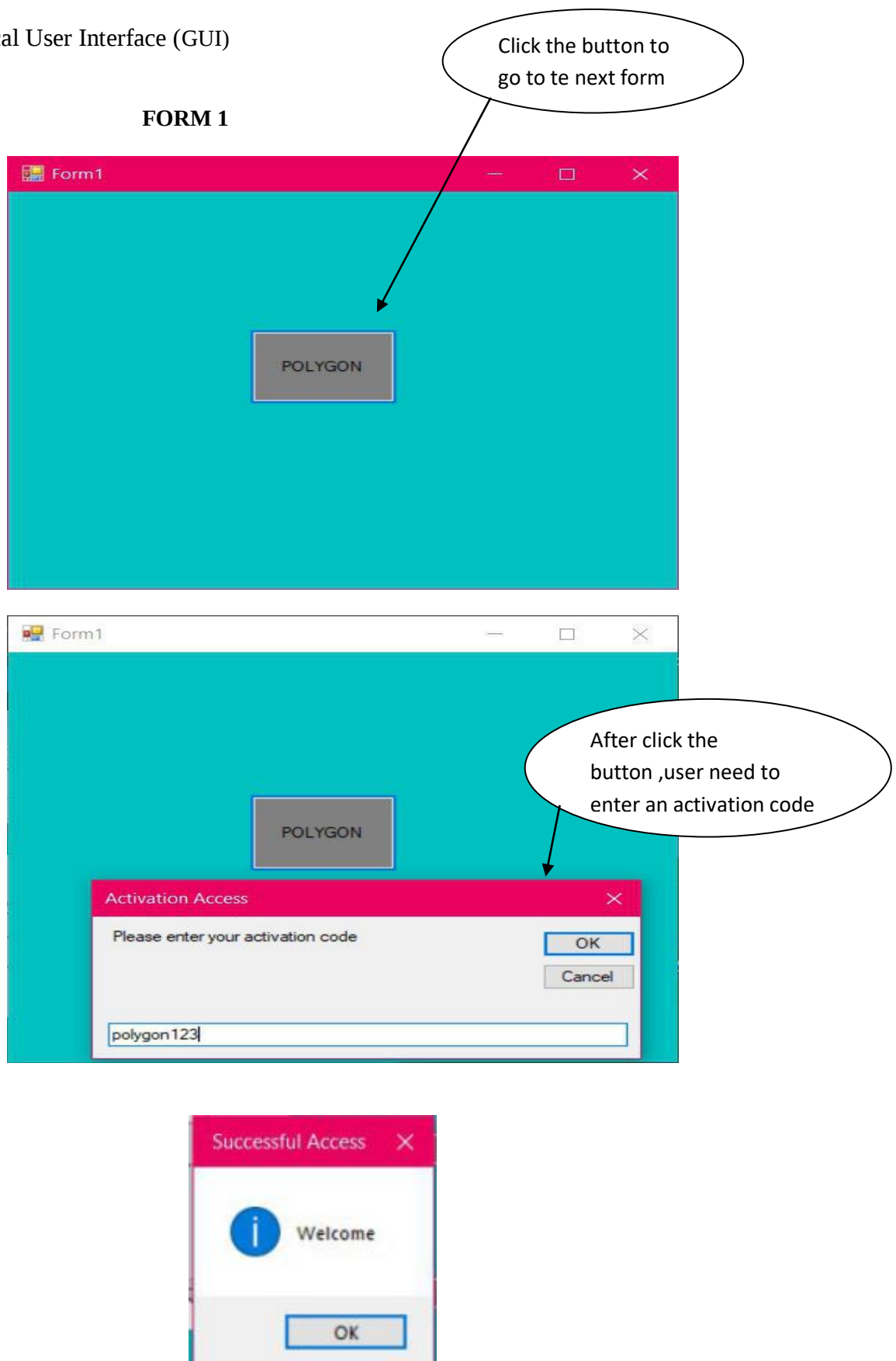
##### 2.3.4.4) Event Click For btnExit

- Exit The program using Close method.

## Phase 3: Implement

### 3.1 Graphical User Interface (GUI)

**FORM 1**



## FORM 2

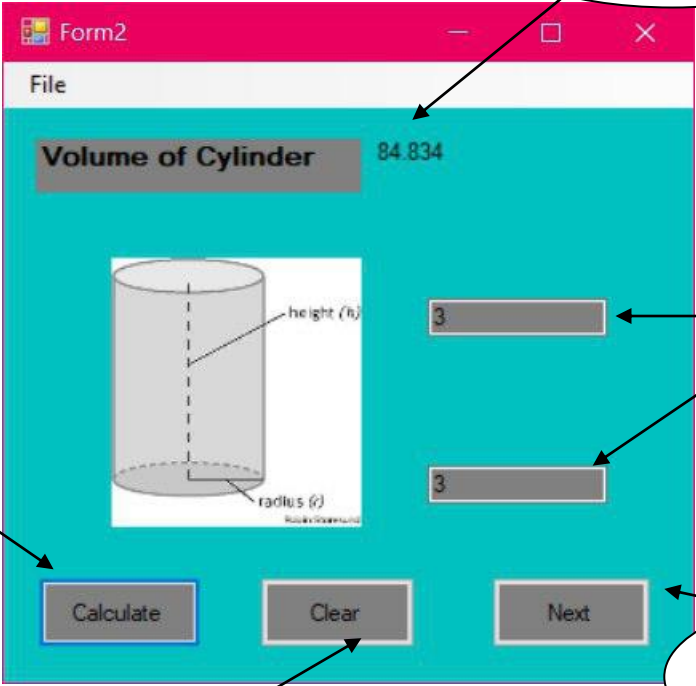
the answer will display at here

Click the calculate button to calculate the volume

User will enter the input in the textbox

Click the Next button to go to the next form

Click the clear button to clear the output



## FORM 3

the answer will display at here

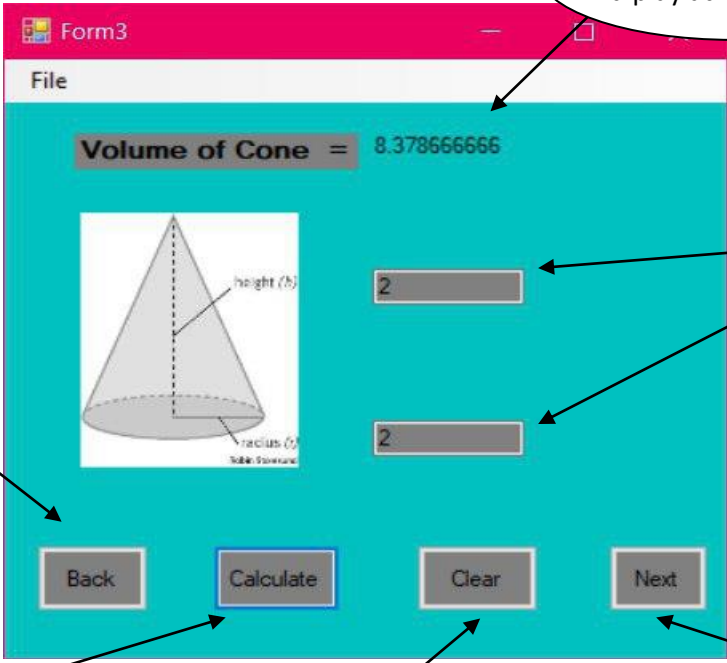
Click the Back button to go to the previous form

User will enter the input in the textbox

Click the calculate button to calculate the volume

Click the clear button to clear the output

Click the Exit button to exit from the form



#### FORM 4

File

Save

Volume of Pyramid =

Height

Base

Pyramid

Back

Calculate

Clear

Exit

the answer will  
display at here

Click the file  
menu ,the click  
save to save the  
document

User will enter the  
input in the textbox

Click the Back  
button to go to the  
previous form

Click the Exit  
button to exit from  
the form

Click the calculate  
button to calculate  
the volume

Click the clear  
button to clear the  
ouput

### 3.2 Properties setting of each object used in the GUI

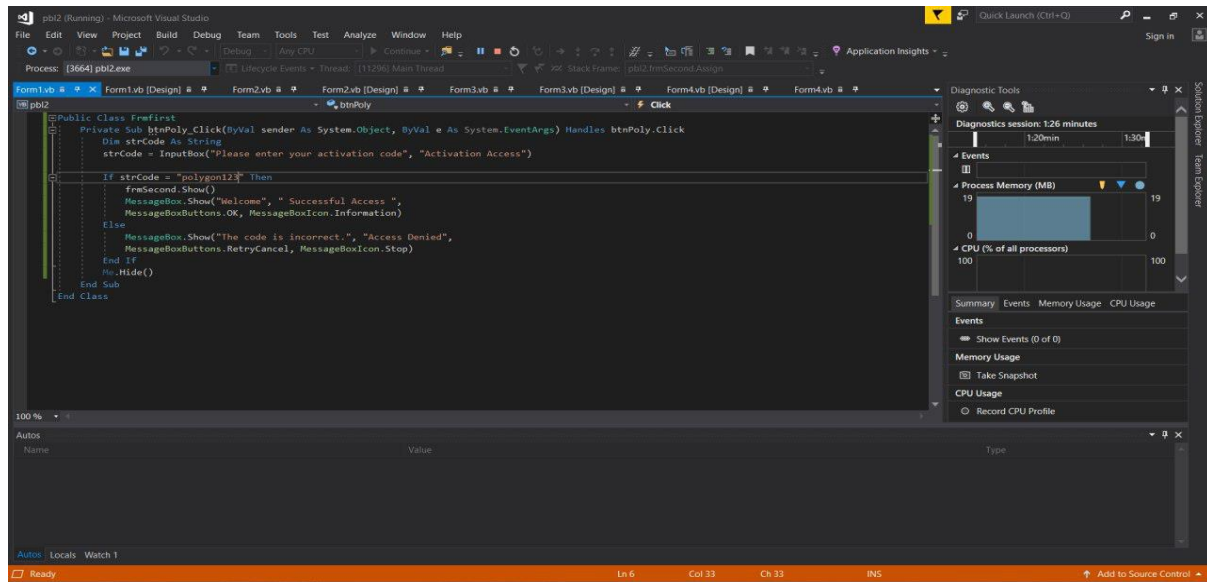
| Object                                                                                                                                                                                                    | Properties                                                                                                                                                                                                                                                                                                                                                                                                           | Setting                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form 1</b><br><br><div>Button</div>                                                                                                                                                                    | Name :<br>Background color:<br><br><div> Name :<br/> Text :<br/> Background color: </div>                                                                                                                                                                                                                                                                                                                            | frmFirst<br>blue<br><br><div> btnPolygon<br/> Polygon<br/> Grey </div>                                                                                                                                                                                                                                                                                                                  |
| <b>Form 2</b><br><br><div>Menustrip</div> <div>Label 1</div> <div>Label 2</div> <div>Textbox1</div> <div>Textbox2</div> <div>Picturebox</div> <div>Button 1</div> <div>Button 2</div> <div>Button 3</div> | Name :<br>Background color:<br><br><div> Name :<br/> Text:<br/> </div> <div> Name:<br/> Text:<br/> Background color: </div> <div> Name: </div> <div> Name:<br/> Background color: </div> <div> Name:<br/> Background color: </div> <div> Name: </div> <div> Name:<br/> Text:<br/> Background color: </div> <div> Name:<br/> Text:<br/> Background color: </div> <div> Name:<br/> Text:<br/> Background color: </div> | frmSecond<br>blue<br><br><div> menustripFile<br/> File </div> <div> lblCylinder<br/> Volume Of Cylinder<br/> Grey </div> <div> lblAns Cylinder </div> <div> txtheight<br/> Grey </div> <div> txtradius<br/> Grey </div> <div> Picturebox1 </div> <div> btnCalculate<br/> Calculate<br/> Grey </div> <div> btnClear<br/> Clear<br/> Grey </div> <div> btnNext<br/> Next<br/> Grey </div> |

|               |                                     |                                   |
|---------------|-------------------------------------|-----------------------------------|
| <b>Form 3</b> | Name :<br>Background color:         | frmThird<br>blue                  |
| Menustrip     | Name :<br>Text:                     | menustripFile<br>File             |
| Label 1       | Name:<br>Text:<br>Background color: | IblCone<br>Volume Of Cone<br>Grey |
| Label 2       | Name:                               | IblAnsCone                        |
| Textbox1      | Name:<br>Background color:          | Txtheight<br>Grey                 |
| Textbox2      | Name:<br>Background color:          | Txtradius<br>Grey                 |
| Picturebox    | Name:                               | Picturebox1                       |
| Button 1      | Name:<br>Text:<br>Background color: | btnCalculate<br>Calculate<br>Grey |
| Button 2      | Name:<br>Text:<br>Background color: | btnClear<br>Clear<br>Grey         |
| Button 3      | Name:<br>Text:<br>Background color: | btnBack<br>Back<br>Grey           |
| Button 4      | Name:<br>Text:<br>Background color: | btnNext<br>Next<br>Grey           |

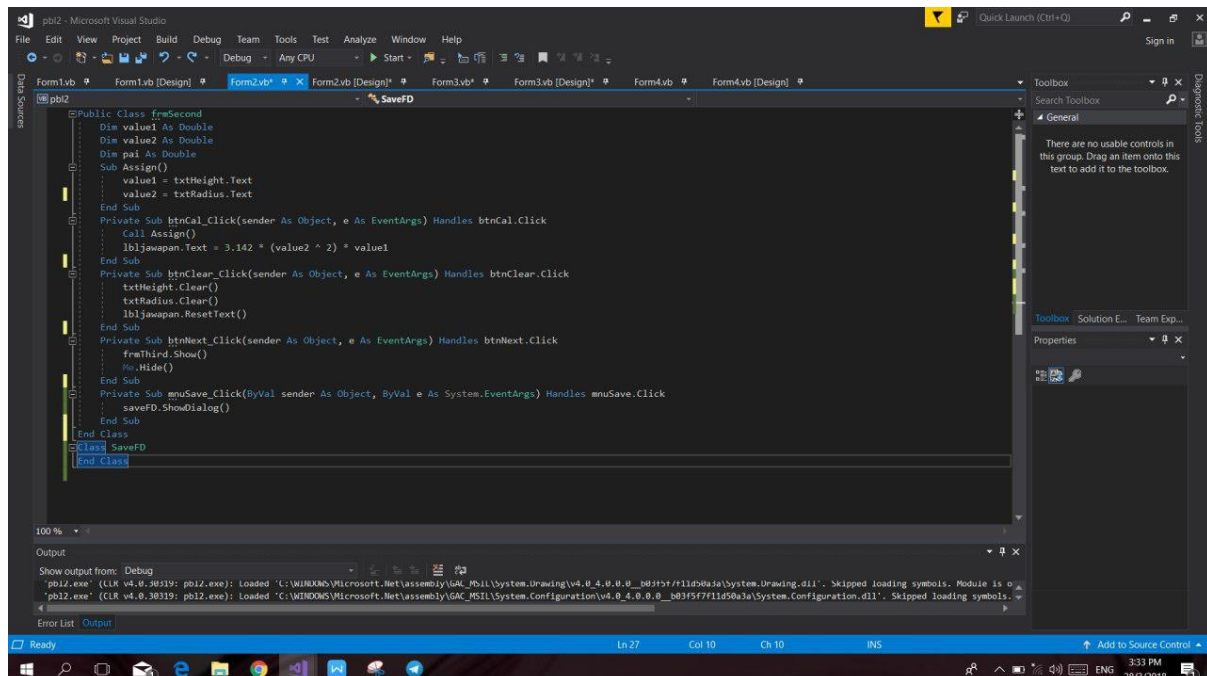
|               |                                     |                                         |
|---------------|-------------------------------------|-----------------------------------------|
| <b>Form 4</b> | Name :<br>Background color:         | frmForth<br>blue                        |
| Menustrip     | Name :<br>Text:                     | menustripFile<br>File                   |
| Label 1       | Name:<br>Text:<br>Background color: | lblPyramid<br>Volume of Pyramid<br>Grey |
| Label 2       | Name:                               | lblAnsPyramid                           |
| Textbox1      | Name:<br>Background color:          | Txtheight<br>Grey                       |
| Textbox2      | Name:<br>Background color:          | Txtbase<br>Grey                         |
| Picturebox    | Name:                               | Picturebox1                             |
| Button 1      | Name:<br>Text:<br>Background color: | btnCalculate<br>Calculate<br>Grey       |
| Button 2      | Name:<br>Text:<br>Background color: | btnClear<br>Clear<br>Grey               |
| Button 3      | Name:<br>Text:<br>Background color: | btnBack<br>Back<br>Grey                 |
| Button 4      | Name:<br>Text:<br>Background color: | btnExit<br>Exit<br>Grey                 |

### 3.3 Program code to carry out the actions needed by the applications.

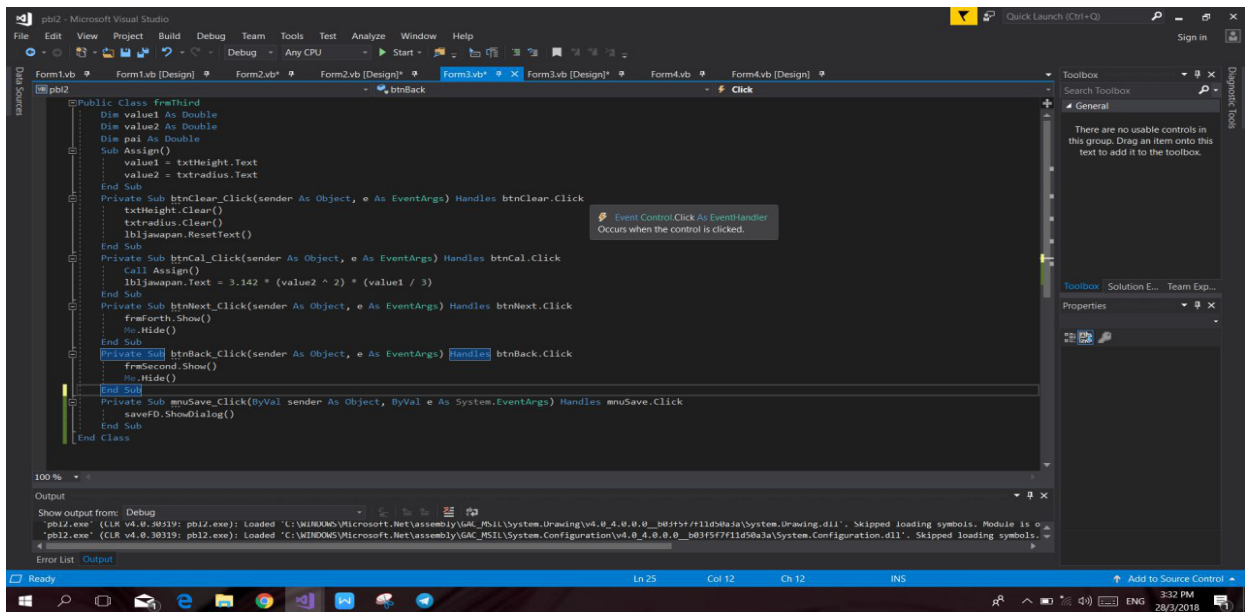
## Form First



## Form Second



## Form Third



## Form Forth

