



SECR2033-01 ORGANISASI & SENIBINA KOMPUTER (COMPUTER ORGANIZATION AND ARCHITECTURE)

Lab 5 Question 1

Group Members:

1. Shahril Bin Saiful Bahri (A20EC0144)
2. Amir Iskandar Bin Norkhairulazaddin (A20EC0011)
3. Iman Ehsan Bin Hassan (A20EC0048)
4. Muhammad Aiman Bin Abdul Razak (A20EC0082)

Lecturer: Dr Zuriahati Bt. Mohd Yunos

TITLE Lab 5 Q1 (main.asm)

INCLUDE Irvine32.inc

.data

str1 BYTE "Enter a side value for hexagon 1:",0

str2 BYTE "Enter a side value for hexagon 2:",0

str3 BYTE "Perimeter for hexagon1 with side = ",0

str4 BYTE "Perimeter for hexagon2 with side = ",0

str5 BYTE " is : ",0

str6 BYTE "The total perimeter = ",0

sideHex1 DWORD ?

sideHex2 DWORD ?

Perimeter_hexagon1 DWORD ?

Perimeter_hexagon2 DWORD ?

TotalPerimeter DWORD ?

.code

main PROC

mov edx,OFFSET str1

call WriteString

call ReadInt

mov sideHex1,eax

mov edx,OFFSET str2

```
call WriteString
call ReadInt
mov sideHex2, eax

mov eax, sideHex1
mov edx, OFFSET str3
call WriteString
call WriteInt
mov ecx, 5
L1:
add eax, sideHex1
loop L1
mov Perimeter_hexagon1, eax
mov edx, OFFSET str5
call WriteString
call WriteInt
call Crlf

mov eax, sideHex2
mov edx, OFFSET str4
call WriteString
call WriteInt

mov ecx, 5
L2 :
    add eax, sideHex2
    loop L2
```

```
mov Perimeter_hexagon2,eax
mov edx, OFFSET str5
call WriteString
call WriteInt
call Crlf
```

```
mov ebx,Perimeter_hexagon1
add TotalPerimeter,eax
add TotalPerimeter,ebx
mov eax,TotalPerimeter
mov edx,OFFSET str6
call WriteString
call WriteInt
call Crlf
```

```
exit
main ENDP
```

```
END main
```

Youtube link: <https://youtu.be/JWqTZyU5Uww>