LAB EXERCISES 1

1.

a.1SECJ- illegal because starts from number

b. school\_computing –legal

c.year 2019- illegal because has space

d. S650- legal

e.\_radius-legal

f.-return-illegal it is reserved word

g.#length- illegal because contain # which is a reserved character

h.float-legal

i.heights-legal

5) Show the content of the following variables after executing the assignment statements.

Determine the size of memory that is reserved to store the data in the variables.

a. 2 bytes

b. 1 byte

c. 4 bytes

d. 4 bytes

e. 8 bytes

6) Identify which of the following variable declaration are incorrect. Give reason for your answer and provide the correct variable declaration.

c. int mark = 99.9 is wrong because int cannot contain decimal point. The correct variable can be float mark = 99.9 or double mark = 99.9

d. long snum = 888888.88 is wrong because long cannot contain decimal point. The correct variable can be float snum = 888888.88 or double snum = 888888.88

7)

#include <iostream>

using namespace std;

int main (){

string name ;

int day,month,year;

string town;

cin>>name;

cin>>day>>month>>year;

cin>>town;

cout<<name;

cout<<day<<month<<year;

return 0;

}

8)

a.m=r; = valid

b. m=n-2.3; not valid because to assign a value from a equation, the variable must be in the left and followed by equal (=) sign

c.s+2 = r; not valid because to assign a value from a mequation , the value must be in the left and followed by equal (=) sign.

d.M=12/s; = valid

e. n/s ; = valid

f. s= m+1 ; = valid

g. s%n ; = not valid because % cannot has double number

Question 9

#include <iostream>

using namespace std;

int main ()

{

int x;

float y;

char z;

x=4;

y = 5.0\*x;

y = y/3.5;

z= 'F';

return 0;

}

10)

a. sqrt(pow(height,2+pow (length,2))

b.1/()+pow (x,2))

c. pow(x,2) + (3\*x)+2

d. 3.142\* pow(r,2)

11)a) 6

b) 13.6667

c) error because the % operations must has int to do int number in the equation

12)

a) order = 3,1,4,2

x=20

b) order 1,2,4,3,5

x= 11

c) order = 5,3,1,4,2

x= 6

13)

a.0

b.0.8

c.0

d.2

e.2

f.1

14)

a.5

b.4

c.5

d.-2

Question 15

//Algorithm 2.2 : Convert the currency of Malaysian ringgit to Turkish Lira

#include <iostream>

using namespace std;

int main ()

{

double MYR\_TO\_TRY = 0.5997;

float MYR;

float turkish\_Lira;

cout << "Enter the value of MYR: ";

cin >> MYR;

turkish\_Lira = MYR \* MYR\_TO\_TRY;

cout << "turkish\_Lira = " << turkish\_Lira <<endl;

return 0;

}

Question 16

#include <iostream>

using namespace std;

int main ()

{

int time;

int day;

int total\_Time;

int remain\_Time;

int hour;

int minutes;

cout << "Enter time : ";

cin >> time;

day = time / (60\*24);

remain\_Time = time % (60\*24);

hour = remain\_Time / 60;

remain\_Time = remain\_Time % 60;

minutes = remain\_Time % 60;

cout << "Day = " << day;

cout << "Hour = " << hour;

cout << "Minutes = " << minutes<<endl;

return 0;

}

Question 17

#include <iostream>

using namespace std;

int main()

{

float length = 2.5;

float width = 15.3;

float Area;

Area = length \* width;

cout << "Area of rectangle = "<< Area<< endl;

return 0;

}

// The Area of rectangle is 38.25

Question 18

#include <iostream>

using namespace std;

int main ()

{

float UnitSale=1500;

float PricePerUnit=20.00;

float CostPerUnit=15.00;

float TotalCost;

float TotalSale;

float TotalProfit;

TotalCost = UnitSale \* CostPerUnit;

TotalSale = UnitSale \* PricePerUnit;

TotalProfit = TotalSale - TotalCost;

cout << "TotalProfit = " << TotalProfit << endl;

return 0;

}

// The TotalProfit is 7500

19)#include <iostream>

Using namespace std ;

Int main ()

{

Double Fe , cel ;//

Cin >> Fe ;//

Cel = (Fe-32)\*(5.0/a);//

Cout <<cel ; /

Return 0;

}

20) )#include <iostream>

Using namespace std ;

Int main ()

{

Double Fe , cel ;//declare the variables of Fareinheit and Celcius

Cin >> Fe ;//use input the Fareinheit \* /

Cel = (Fe-32)\*(5.0/a);//conversion of Fareinheit to celcius

Cout <<cel ; /\* output the celcius \*/

Return 0;

}

PROBLEM SOLVING

1.

#include <iostream>

Using namespace std ;  
int main () ;

double pound, gram;

cin >> pound;

gram = pound \*453.592;

cout << gram ;

return 0;

}