

## Lab9

### Workshop (3)

#### **Q1**

```
#include <iostream.h>

/* write a program to print the square of any number entered by the user
using a function that return value and take a number*/

float squ(float x)
{
    return x*x;
}

void main()
{
    float x;

    cout<<"please enter a number : ";

    cin>>x;

    cout<<"The Square of the number "<<x<<" is : "<<squ(x);

}
```

## Q2

```
#include <iostream.h>
```

```
/*Enter the degree of a student by the user , Print the grade of the student based on her degree,  
Using function that dont return any value and take only one parameter*/
```

```
void grade(float x)
```

```
{
```

```
cout<<"\nthe students grade is : ";
```

```
if (x>=90)
```

```
cout<<"A";
```

```
else if (x>=80)
```

```
cout<<"B";
```

```
else if (x>=70)
```

```
cout<<"C";
```

```
else if (x>=60)
```

```
cout<<"D";
```

```
else
```

```
cout<<"F";
```

```
}
```

```
void main()
```

```
{
```

```
float x ;
```

```
cout<<"Enter the students degree : ";
```

```
cin>>x;  
  
grade(x);  
  
}
```

### Q3 A

```
#include <iostream.h>
```

/\*write a program for a calculator using 4 functions, each one will return a value and not take any parameter. The user will enter two numbers and he will choose

A for addition and S for subtraction and M for multiplication and D for division , then display the result\*/

```
float add()
```

```
{
```

```
    float a,b;
```

```
    cout<<"Enter the numbers :\n";
```

```
    cin>>a>>b;
```

```
    return a+b;
```

```
}
```

```
float sub()
```

```
{
```

```
    float a,b;
```

```
    cout<<"Enter the numbers :\n";
```

```
    cin>>a>>b;
```

```
    return a-b;
```

```
}
```

```
float mul()
```

```
{
```

```

float a,b;

cout<<"Enter the numbers :\n";

cin>>a>>b;

return a*b;
}

float div()
{
float a,b;

cout<<"Enter the numbers :\n";

cin>>a>>b;

return a/b;
}

void main()
{
char l;

cout<<"enter the letter A for addition and S for subtraction and M for multiplication and D for
division\n";

cin>>l;

if (l=='A')

cout<<"the answer is = "<<add();

else if (l=='S')

cout<<"the answer is = "<<sub();

else if (l=='M')

cout<<"the answer is = "<<mul();

else if (l=='D')

```

```
cout<<"the answer is = "<<div();  
  
else  
  
cout<<"ERROR";  
  
}
```

### Q3 B

```
#include <iostream.h>  
  
float calc(float x,float y ,char l)  
{  
    if (l=='A')  
        cout<<"the answer is = "<<x+y;  
    else if (l=='S')  
        cout<<"the answer is = "<<x-y;  
    else if (l=='M')  
        cout<<"the answer is = "<<x*y;  
    else if (l=='D')  
        cout<<"the answer is = "<<x/y;  
    else  
        cout<<"ERROR";  
}  
  
void main()  
{  
  
    float x ,y;
```

```
char l;  
  
cout<<"Please enter two numbers : \n";  
  
cin>>x>>y;  
  
cout<<"enter the letter A for addition and S for subtraction and M for multiplication and D for  
division\n";  
  
cin>>l;  
  
calc(x,y,l)    ;  
  
}
```

#### حل الطالبات:

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