Fundamentals of Programming

LAB TASK MANUAL 5

NAME	ARBAB SAGHIR
CLASS	ME-15(A)
REG NO	470382
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TASK 1

```cpp
#include<iostream>
using namespace std;
int main()
{
 int x=1;
 do{
  cout<<"Enter a number :";
  cin>>x;
 }while(x>0);
 return 0;
}
```

```
Enter a number :2
Enter a number :3
Enter a number :4
Enter a number :5
Enter a number :6
Enter a number :77
Enter a number :898
Enter a number :-3

--------------------------------
Process exited after 13.66 seconds with return value 0
Press any key to continue . . .
```
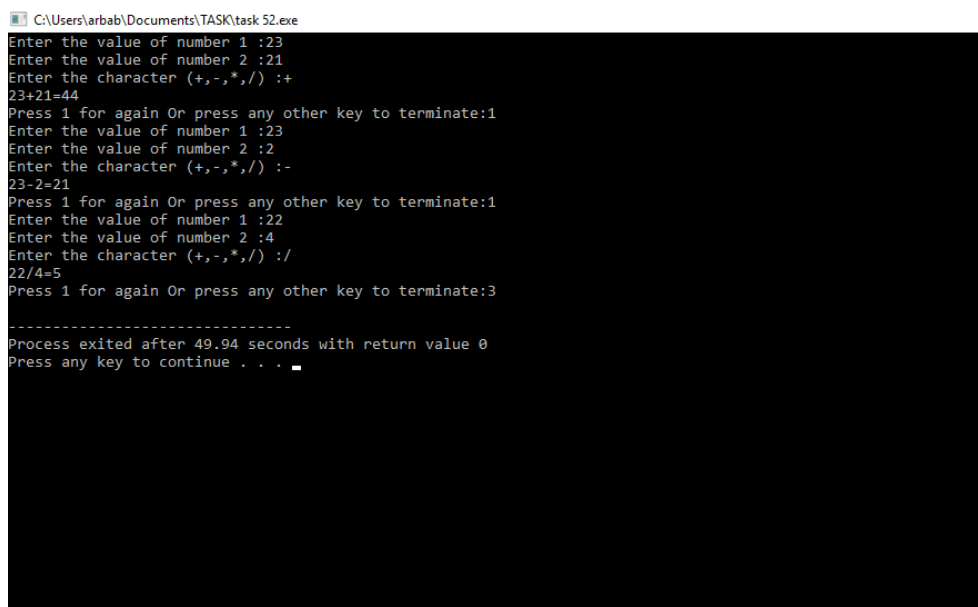
TASK 2

```cpp
#include<iostream>
using namespace std;
int main()
{
 int Num1,Num2,x;
 char Oper;
 do{
   cout<<"Enter the value of number 1 :";
   cin>>Num1;
   cout<<"Enter the value of number 2 :";
   cin>>Num2;
   cout<<"Enter the character (+,-,*,/) :";
   cin>>Oper;
   switch(Oper)
   {

        case '+' :
        cout<<Num1<<"+"<<Num2<<"="<<Num1+Num2<<endl;
        break;
        case '-' :
        cout<<Num1<<"-"<<Num2<<"="<<Num1-Num2<<endl;
        break;
        case '*' :
        cout<<Num1<<"*"<<Num2<<"="<<Num1*Num2<<endl;
        break;
        case '/' :
        cout<<Num1<<"/"<<Num2<<"="<<Num1/Num2<<endl;
        break;
   }
   cout<<"Press 1 for again Or press any other key to terminate:";
   cin>>x;
 }while(x==1);
 return 0;
}
```
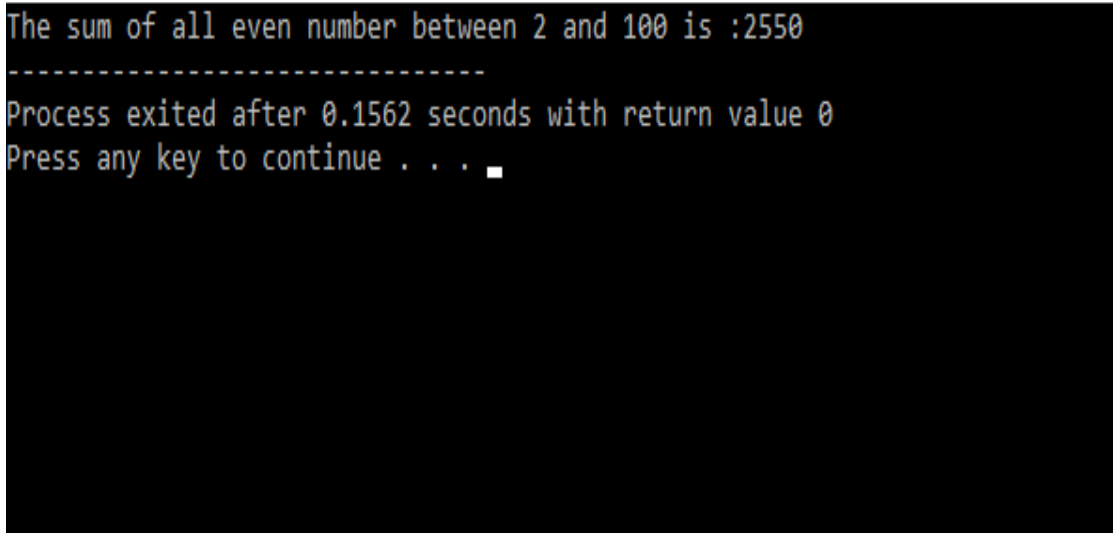
C:\Users\arbab\Documents\TASK\task 52.exe

```
Enter the value of number 1 :23
Enter the value of number 2 :21
Enter the character (+,-,*,/) :+
23+21=44
Press 1 for again Or press any other key to terminate:1
Enter the value of number 1 :23
Enter the value of number 2 :2
Enter the character (+,-,*,/) :-
23-2=21
Press 1 for again Or press any other key to terminate:1
Enter the value of number 1 :22
Enter the value of number 2 :4
Enter the character (+,-,*,/) :/
22/4=5
Press 1 for again Or press any other key to terminate:3

-------------------------------
Process exited after 49.94 seconds with return value 0
Press any key to continue . . .
```

TASK 3(A)

```cpp
#include<iostream>
using namespace std;
int main()
{
 int x(2),y(0);
 do{
        if(x%2==0)
        {
         y=y+x;
         }
         else {
         }
         x++;

 }while(x<101);
 cout<<"The sum of all even number between 2 and 100 is :"<<y;
 return 0;
}
```

```
The sum of all even number between 2 and 100 is :2550
--------------------------------
Process exited after 0.1562 seconds with return value 0
Press any key to continue . . .
```

TASK 3(B)

```cpp
#include<iostream>
using namespace std;
int main()
{
        int m=1,n(0);
        do
        {
        n=n+m*m;
        m++;
        }
        while(m*m<101);
        cout<<"The sum of all squares between 1 and 100 is:"<<n;
        return 0;
}
```

C:\Users\arbab\Documents\TASK\task 53b.exe

```
The sum of all squares between 1 and 100 is:385
---------------------------------
Process exited after 0.1408 seconds with return value 0
Press any key to continue . . .
```

TASK 4(A)

```cpp
#include<iostream>
#include<math.h>
using namespace std;
int main()
{
 int x(0),y(2),z;
 cout<<"value of y^x is :";
do{
 z=pow(y,x);
 x++;
 cout<<z<<",";
}while(x<=20);
return 0;
}
```

TASK 4(B)

```cpp
#include<iostream>
using namespace std;
int main()
{
int x,a,b,y(0);
cout<<"Enter value of a :";
cin>>a;
cout<<"Enter value of b :";
cin>>b;
x=a;
do{
        if(x%2!=0)
        {
        y=y+x;
        }
        else{
        }
        x++;

}while(x<=b);
cout<<"The sum of all odd number between a and b is :"<<y;
return 0;

}
```

```
Enter value of a :12
Enter value of b :54
The sum of all odd number between a and b is :693
--------------------------------
Process exited after 4.695 seconds with return value 0
Press any key to continue . . .
```