# **Lab Manual:4**

**Lab Task** 

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Course: ME-15

**Section: A** 

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## Task 1:

```
• #include<iostream>
using namespace std;
int main(){
int x=1;
do {
        cout<<" Enter a value: ";</pre>
        cin>>x;
}
while(x>0);
return 0;
C:\Users\Nafeel Javid\OneDrive\Desktop\Dev c++\lab 5 c-1.exe
                                                                                                         ×
Enter a value: 5
Enter a value: 8
Enter a value: 0
Process exited after 5.953 seconds with return value 0
Press any key to continue . . . _
```

### Task 2:

```
#include<iostream>
using namespace std;
int main()
{
      double x,y,z;
      char op,ch;
      do{
             cout << " Enter first value: ";</pre>
             cin>>x;
             cout<<" Tell the operator: ";</pre>
             cin>>op;
             cout << " Enter second value: ";</pre>
             cin>>y;
             switch(op) {
                    case '+':
                    z=x+y;
                    break;
                    case '-':
                    z=x-y;
                    break;
                    case '*':
                    z=x*y;
                    break;
```

```
default:
                     cout<< " Plz tell a correct operator";</pre>
                     break;
                     }
                     cout<< " Your Result is : "<<z<<endl;</pre>
                     cout<< " Want to perform again if yes then enter y ? ";</pre>
                     cin>>ch;
          } while (ch=='y' || ch=='Y' );
                     cout<<" Allah Fiz ";
          return 0;
■ C:\Users\Nafeel Javid\OneDrive\Desktop\Dev c++\lab 5 c- 2.exe
                                                                                                                                   \times
Enter first value: 8
Tell the operator: +
Enter second value: 4
Your Result is: 12
Want to perform again if yes then enter y ? y
Enter first value: 3
Tell the operator:
Enter second value: 1
Your Result is : 2
Want to perform again if yes then enter y ? n
Allah Fiz
Process exited after 20.02 seconds with return value 0
Press any key to continue . . .
```

#### Task 3:

#include<iostream>

```
using namespace std;
int main()
{
      int x=0;
      int y=2;
      while(y<=100) {
            if(y%2==0){
            x=y+x;
            y++ ;
             }
            else{
                   y++;
            }
                   }
                   cout<<" Sum of even numbers is :"<<x;</pre>
      return 0;
}
```

```
• #include<iostream>
using namespace std;
int main ()
{
    int x=0;
    int y=1;
    while(y<=100) {
        x=x+(y*y);
        y++;
    }
    cout<< "Sum of squares : "<<x;
    return 0;
}</pre>
```

### Task 4:

```
#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    int power=0;
    int z;
    while(power<=20) {
        z=pow(2,power);
        cout<<z<<endl;
        power++;
    }return 0; }</pre>
```

```
using namespace std;
int main()
{
```

#include<iostream>

```
int a,b;
int z=0;
cout << " Enter the first value: ";
cin>>a;
cout<<" Enter second value: ";
cin>>b;
while(a<=b) {
if(a%2!=0){
    z=z+a;
    a++;</pre>
```

```
} else{
                       a++;
           }
} cout << " Your answer : "<<z;
return 0;
                                                                                                                                       - 🗆 ×
C:\Users\Nafeel Javid\OneDrive\Desktop\Dev c++\lab 5 c4-2.exe
Enter the first value: 2
Enter second value: 10
Your answer : 24
Process exited after 6.54 seconds with return value 0
Press any key to continue . . . .
```

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