

Fundamentals of Programming
ME-15
Section B
1st Semester
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```
#include<iostream>
using namespace std;
int main(){
         int i=1;
         do{
         cout<<"Enter a number:"<<endl;
         cin>>i;
         }while(i>0);
         return 0;
}
 D:\Downloads\lab task five .exe
                                                                                                          Enter a number:
Enter a number:
 nter a number:
 Process exited after 7.874 seconds with return value 0
Press any key to continue . . .
int main(){
         int i=2, sum=0;
         while(i<=100){
         if(i % 2 == 0){
         sum+=i;}
         i++;}
         cout<<"Sum of even numbers from 2 to 100 is:"<<sum<<endl;
         return 0;
}
```

```
D:\Downloads\lab task five .exe — — X

Sum of even numbers from 2 to 100 is:2550

Process exited after 0.06045 seconds with return value 0

Press any key to continue . . .
```

```
#include<cmath>
int main(){
    int i=1, sum=0;
    while(i<=100){
    sum+= i*i;
    i++;}
    cout<<"Sum of the squared numbers from 1 to 100 is:"<<sum<<endl;
    return 0;
}</pre>
```

```
#include<cmath>
```

```
int main(){
    int i=0;
    while(i<=20){
    i++;
    cout<<pow(2,i)<<endl;
}</pre>
```

## return 0;}

```
int main(){
    int a, b, sum=0;
    cout<<"Enter two numbers 'a' and 'b':"<<endl;
    cin>>a>>b;
    while(a<=b){
    if(a % 2 != 0){
        sum+=a;}
        a++;     //only doing 'a' increment because the numbers start from the number 'a'
    }
    cout<<"Sum of odd numbers:"<<sum<<endl;
    return 0;
}</pre>
```

```
#include<cmath>
int main(){
       char symbols;
       int num1, num2, a;
       do{
       cout<<"Enter a number:"<<endl;
       cin>>num1;
       cout<<"Enter an operation:"<<endl;
       cin>>symbols;
       cout<<"Enter another number:"<<endl;
       cin>>num2;
       switch(symbols){
       case'*':
       cout<<"Answer:"<<num1*num2<<endl; /*place the enter another number statements in
the do while group to restart the calculator.*/
       break;
       case'/':
       cout<<"Answer:"<<num1/num2<<endl;</pre>
       break;
       case'-':
       cout<<"Answer:"<<num1-num2<<endl;
       break;
       case'+':
       cout<<"Answer:"<<num1+num2<<endl;
       break;
       case'%':
       cout<<"Answer:"<<num1%num2<<endl;</pre>
       break;
       case'^':
       cout<<"Answer:"<<pow(num1,num2)<<endl;
       break;
```

```
default:
    cout<<"Invalid"<<endl;
}
    cout<<"Enter 1 to try again, 0 to end program:"<<endl;
    cin>>a;
} while(a == 0);
    cout<<"Program ended."<<endl;
return 0;
}</pre>
```

```
Enter a number:

Senter an operation:

Enter another number:

Answer:2
Enter 1 to try again, 0 to exit:

Enter a number:
```