



Fundamentals of Programming

ME-15

Section B

1st Semester

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Haniyyah Abbas 481755

```

#include<iostream>

using namespace std;

int main(){

    int i=1;

    do{

        cout<<"Enter a number:"<<endl;

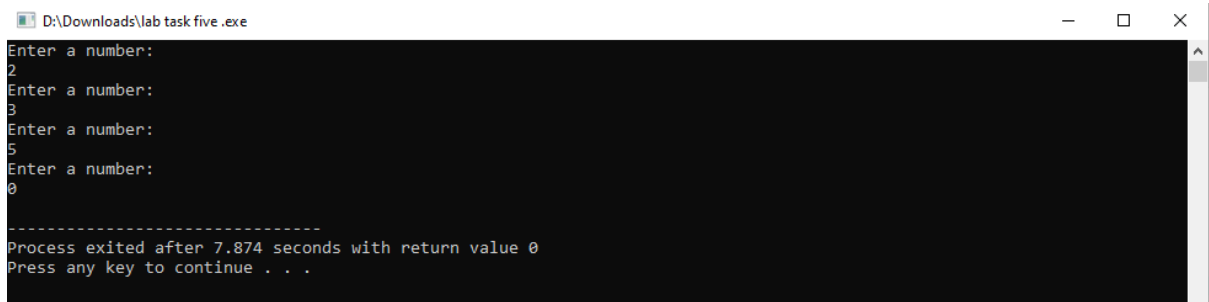
        cin>>i;

    }while(i>0);


    return 0;

}

```



```

D:\Downloads\lab task five .exe
Enter a number:
2
Enter a number:
3
Enter a number:
5
Enter a number:
0
-----
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;}

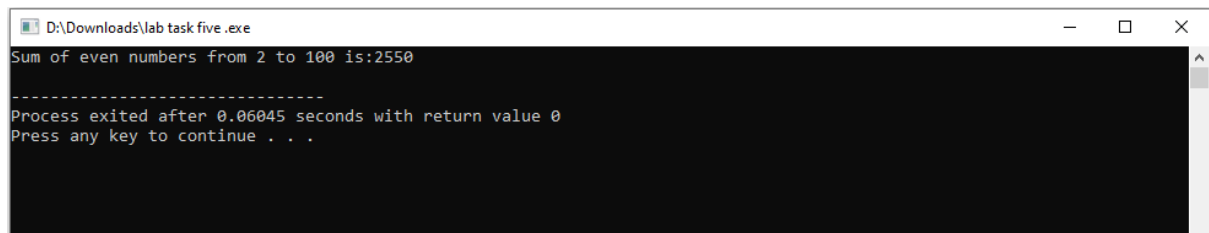
        i++;}

    cout<<"Sum of even numbers from 2 to 100 is:"<<sum<<endl;


    return 0;

}

```



```
D:\Downloads\lab task five .exe
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){
```

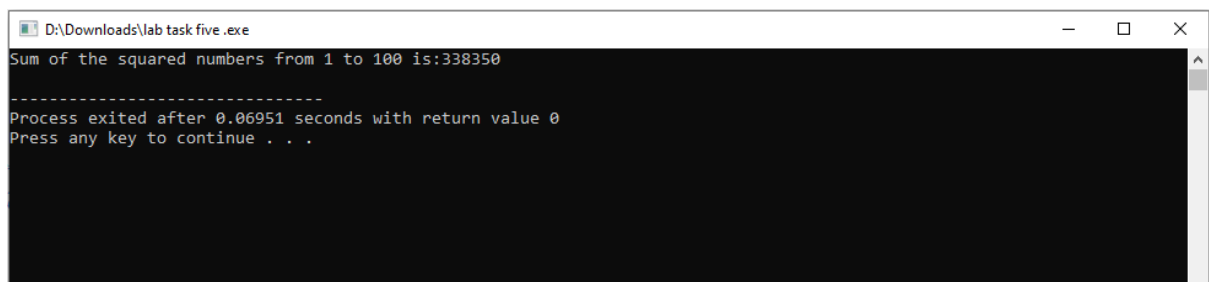
```
        sum+= i*i;
```

```
        i++;}
```

```
    cout<<"Sum of the squared numbers from 1 to 100 is:"<<sum<<endl;
```

```
    return 0;
```

```
}
```



```
D:\Downloads\lab task five .exe
Sum of the squared numbers from 1 to 100 is:338350
-----
Process exited after 0.06951 seconds with return value 0
Press any key to continue . . .
```

```
#include<cmath>
```

```
int main(){
```

```
    int i=0;
```

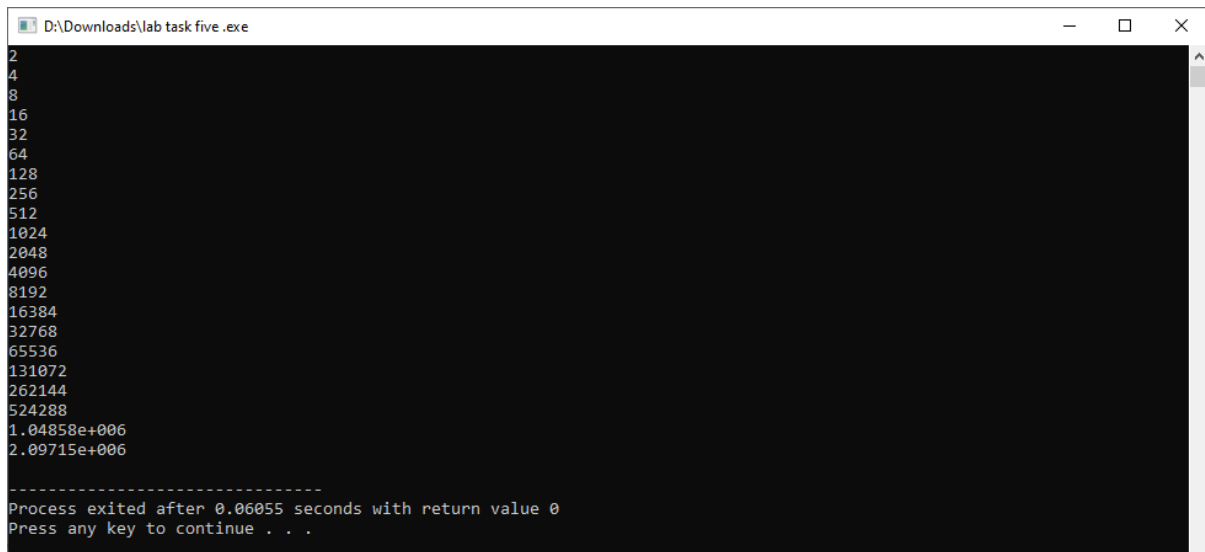
```
    while(i<=20){
```

```
        i++;
```

```
        cout<<pow(2,i)<<endl;
```

```
    }
```

```
return 0;}
```



```
D:\Downloads\lab task five .exe
2
4
8
16
32
64
128
256
512
1024
2048
4096
8192
16384
32768
65536
131072
262144
524288
1.04858e+006
2.09715e+006
-----
Process exited after 0.06055 seconds with return value 0
Press any key to continue . . .
```

```
int main(){
    int a, b, sum=0;

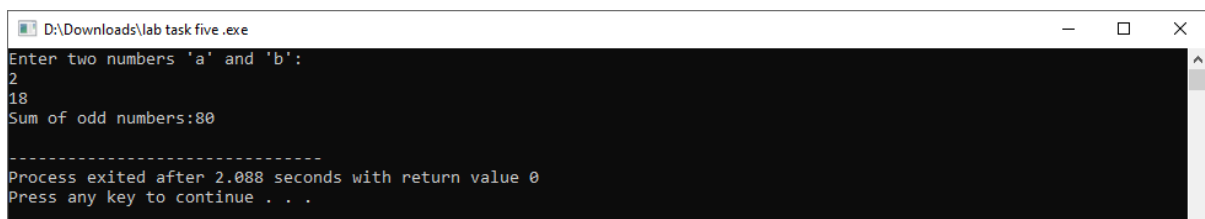
    cout<<"Enter two numbers 'a' and 'b':"<<endl;
    cin>>a>>b;

    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;
}
```



```
D:\Downloads\lab task five .exe
Enter two numbers 'a' and 'b':
2
18
Sum of odd numbers:80
-----
Process exited after 2.088 seconds with return value 0
Press any key to continue . . .
```

```

#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;

                break;

            case'-':

                cout<<"Answer:"<<num1-num2<<endl;

                break;

            case'+':

                cout<<"Answer:"<<num1+num2<<endl;

                break;

            case'%':

                cout<<"Answer:"<<num1%num2<<endl;

                break;

            case'^':

                cout<<"Answer:"<<pow(num1,num2)<<endl;

                break;

```

```
        default:

        cout<<"Invalid"<<endl;

    }

    cout<<"Enter 1 to try again, 0 to end program:"<<endl;

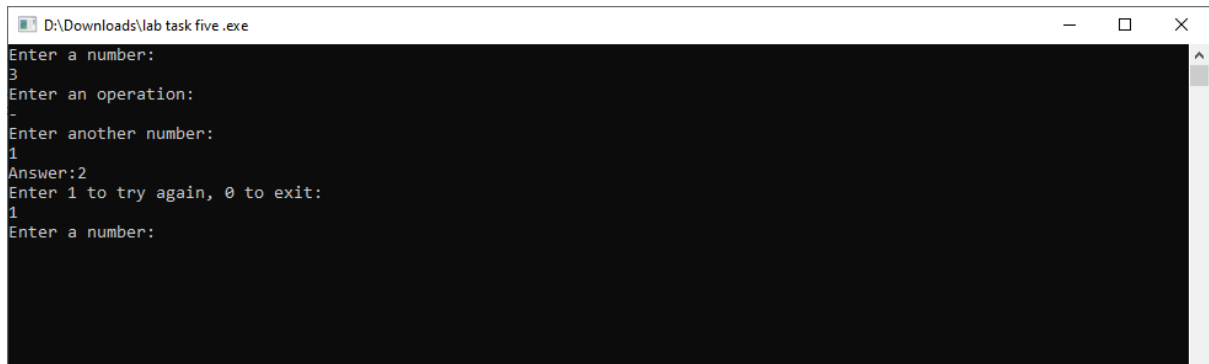
    cin>>a;

} while(a == 1);

    cout<<"Program ended."<<endl;

return 0;

}
```



```
D:\Downloads\lab task five .exe
Enter a number:
3
Enter an operation:
-
Enter another number:
1
Answer:2
Enter 1 to try again, 0 to exit:
1
Enter a number:
```