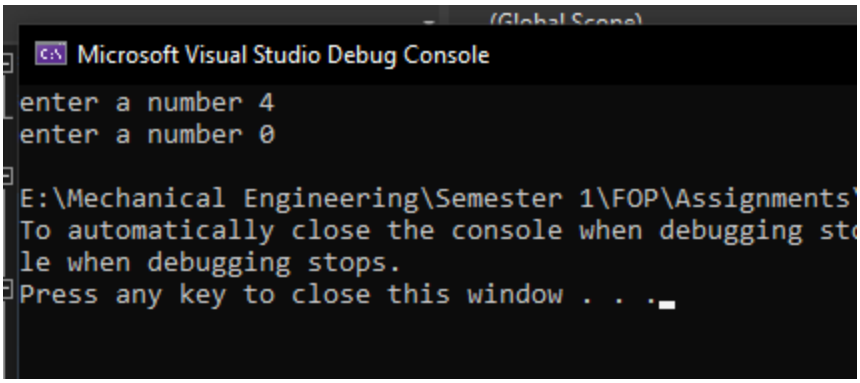
FUNDAMENTALS OF PROGRAMMING

LAB MANUAL 5

LAB TASK

ABDUL MOIZ 464834 SECTION B

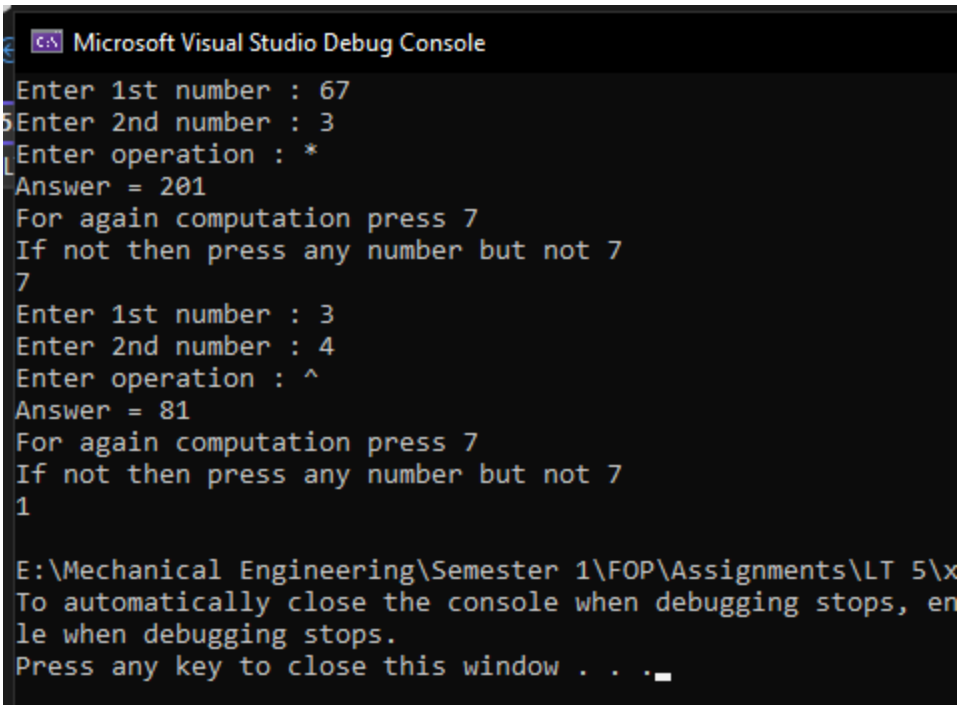
```
#include<iostream>
#include<math.h>
using namespace std;
int main()
//{// Task # 1
//	int x = 1;
//	do
//	{
//		cout << "enter a number ";
//		cin >> x;
//	} while (x > 0);
//		return 0;
//}
```




```
//{// Task # 2
//      int x, y, z, a;
//      char operation;
//
//      do
//      {
//              cout << "Enter 1st number : ";
//              cin >> x;
//              cout << "Enter 2nd number : ";
//              cin >> y;
//              cout << "Enter operation : ";
//              cin >> operation;
//              switch (operation)
//              {
//              case'+':
//                      z = x + y;
//                      break;
```

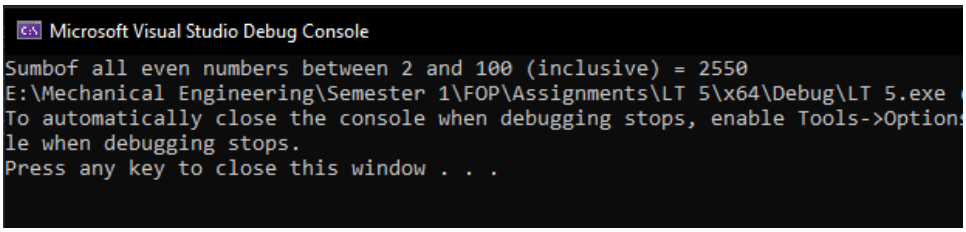
```
//          case'-':
//                  z = x - y;
//                  break;
//          case'*':
//                  z = x * y;
//                  break;
//          case'/':
//                  if (y != 0)
//                  {
//                          z = x / y;
//                  }
//                  else if (y == 0)
//                  {
//                          cout << "invalid";
//                  }
//                  break;
//          case'%':
//                  if (y != 0)
//                  {
//                          z = x % y;
//                  }
//                  else if (y == 0)
```

```
//                  {
//                          cout << "invalid";
//                  }
//                  break;
//          case'^':
//                          z = pow(x, y);
//                          break;
//          }
//          cout <<"Answer = "<< z << endl;
//          cout << "For again computation press 7" << endl;
//          cout << "If not then press any number but not 7" << endl;
//          cin >> a;
//    } while (a == 7);
//          return 0;
//}
```

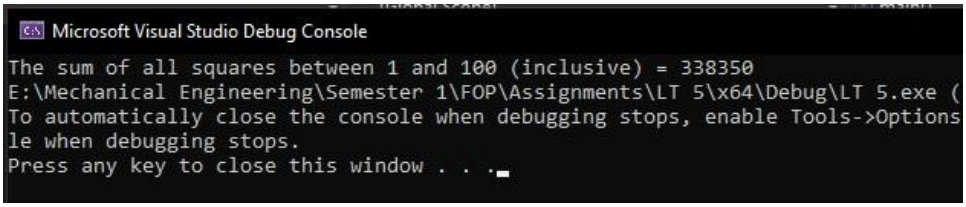



```
//{// Task # 3 (a)
//      int i=0, x=0;
//      while (i <= 100)
//      {
//              if (i % 2 == 0)
//              {
//                      x = x + i;
//              }
//              i++;
//      }
//      cout << "Sum of all even numbers between 2 and 100 (inclusive) = " << x;
//      return 0;
```

```
//}
```

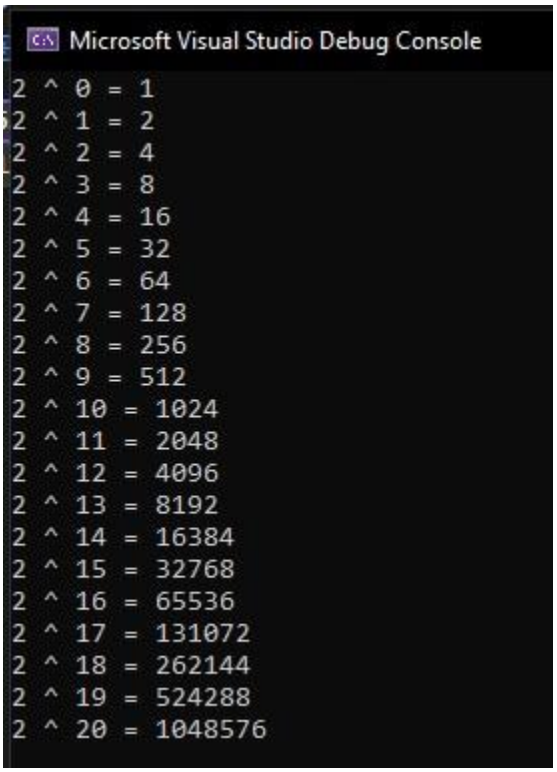



```
//{// Task # 3 (b)
//      int a=1, b=0;
//      while (a <= 100)
//      {
//              b = b + pow(a,2);
//              a++;
//      }
//      cout << "The sum of all squares between 1 and 100 (inclusive) = "
<< b;
//      return 0;
//}
```




```
//{// Task # 4 (a)
//      int s = 2, d = 0,f;
//      while (d <= 20)
//      {
```

```
//            f = pow(s, d);
//            cout << "2 ^ " << d << " = " << f << endl;
//            d++;
//    }
//    return 0;
//}
```




```
//{// Task # 4 (b)
//    int a, b, c=0;
//    cout << "Enter 1st number : ";
//    cin >> a;
//    cout << "Enter 2nd number : ";
//    cin >> b;
```

```
//	while (a <= b)
//	{
//		if (a%2==1)
//		{
//			c = c + a;
//		}
//		a++;
//	}
//	cout << "The sum of all odd numbers between a and b (inclusive) = " << c;
//	return 0;
//}
```