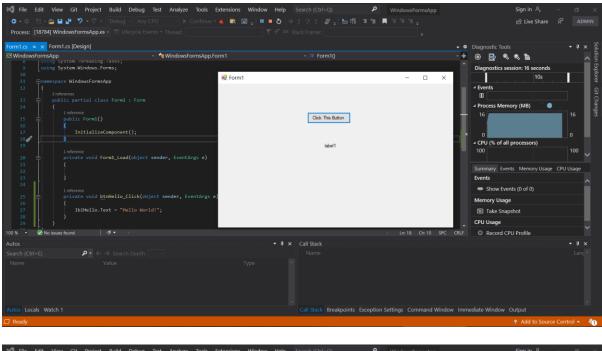
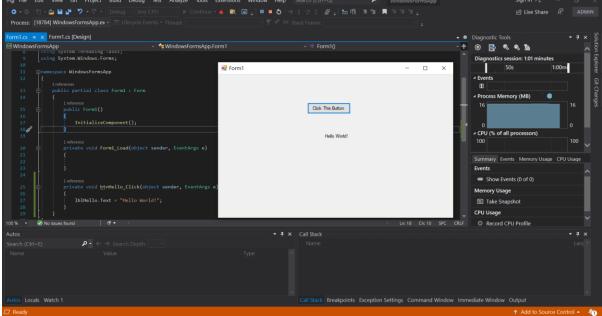
Module 1

> Windows Form Application

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System. Windows. Forms;
namespace WindowsFormsApp
  public partial class Form1: Form
    public Form1()
      InitializeComponent();
    }
    private void Form1_Load(object sender, EventArgs e)
    }
    private void btnHello_Click(object sender, EventArgs e)
      lblHello.Text = "Hello World!";
    }
}
```

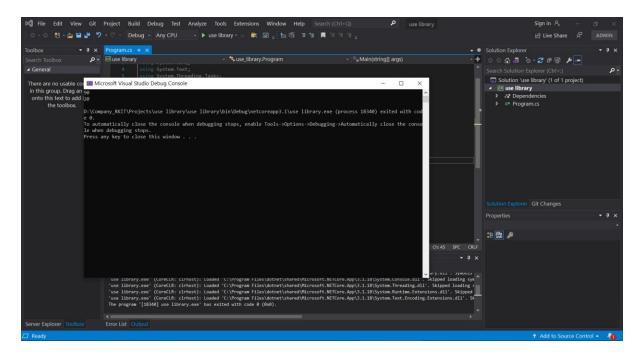




Class Library Project

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace ClassLibrary
  public sealed class Class1
    public int add(int a, int b)
      return a + b;
    public int sub(int a, int b)
      return a - b;
    }
  }
}
      Console application which uses the class library method:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using ClassLibrary;
namespace use_library
  class Program
    static void Main(string[] args)
    {
      Class1 c = new Class1();
```

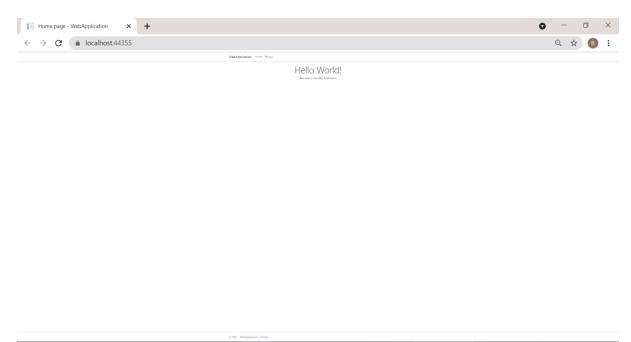
```
Console.WriteLine(c.add(15,75));
    Console.WriteLine(c.sub(95, 75));
}
}
```



> Web Application

```
@page
@model IndexModel
@{
    ViewData["Title"] = "Home page";
}

<div class="text-center">
    <h1 class="display-4">Hello World!</h1>
    Welcome to my Web Application.
</div>
```



> Simple Console Application for Hello World Program

```
using System;
namespace HelloWorldConsoleApp
{
    class Program
    {
        static void Main(string[] args)
          {
            Console.WriteLine("Hello World!");
            Console.ReadLine();
        }
    }
}
```

```
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Hello World!

^
```

> Usage and working of class

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace classDemo
{
    class Program
    {
        static void Main(string[] args)
        {
            Square s = new Square();
            s.length = 9;
            int area = s.length * s.length;
            Console.WriteLine("Area of square is : {0}", area);
            Console.ReadLine();
        }
    }
}
```

```
class Square
  {
     public int length;
   }
}
```

```
■ D:\Company_RKIT\Module 1\Code\ClassDemo\ClassDe... —  

Area of square is: 81
```

> Use of variable

```
using System;
namespace variableDemo
{
    class Program
    {
        static void Main(string[] args)
        {
            int a = 15;
            float b = 10.15F;
            double c;
            c = a + b;
            Console.WriteLine("c = {0} + {1} = {2}", a,b,c);
            Console.Read();
        }
    }
}
```

```
D:\Company_RKIT\Module 1\Code\VariableDemo\VariableDemo\bin\D... — X

c = 15 + 10.15 = 25.1499996185303
```

> How to define and call Method

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace methodDemo
  class Program
    static void Main(string[] args)
      Rectangle r = new Rectangle();
      int I = 4;
      int b = 7;
      int area = r.Area(l, b);
      Console.WriteLine("Area of rectangle with length {0} and breadth {1} =
{2}", I,b,area);
      Console.Read();
    }
  class Rectangle
  {
    public int Area (int length, int breadth)
```

```
{
    int ans = length * breadth;
    return ans;
}
}
```



> Explicit type conversion

```
int i;
    i = (int)d;
    Console.WriteLine(i);
    Console.Read();
}
}
```



> Boxing and Unboxing

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace BoxingUnboxing
{
    class Program
    {
       static void Main(string[] args)
       {
          int i = 65;
    }
}
```

```
Object obj = i; //Boxing
    Console.WriteLine("Boxing obj = {0}", obj);
    int j = (int)obj; //Unboxing
    Console.WriteLine("Unboxing object value to int j and j = {0}", j);
    Console.Read();
}
}
```

```
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Boxing obj = 65
Unboxing object value to int j and j = 65
```

> Type of If statements

```
Console.WriteLine("a is positive");

if (b > 10)
{

    if (a > b)
    {

        Console.WriteLine("a is greater than b");
    }

    else
        Console.WriteLine("a is lesser than b");
}

else if (a < 0)
    Console.WriteLine("a is negative");

else
    Console.WriteLine("a = 0");

Console.Read();
}

}
```

Switch Case

```
using System;
using System.Collections.Generic;
```

```
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace SwitchCase
{
  class Program
    static void Main(string[] args)
      int day = 3;
      switch (day)
        case 1:
           Console.WriteLine("Today is Monday");
           break;
        case 2:
           Console.WriteLine("Today is Tuesday");
           break;
        case 3:
           Console.WriteLine("Today is Wednesday");
           break;
        case 4:
           Console.WriteLine("Today is Thursday");
           break;
        case 5:
           Console.WriteLine("Today is Friday");
           break;
        case 6:
           Console.WriteLine("Today is Saturday");
           break;
        case 7:
           Console.WriteLine("Today is Sunday");
           break;
        default:
          Console.WriteLine("There is a Weekend.");
           break;
    Console.Read();
```

```
}
```

```
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Today is Wednesday

A
```