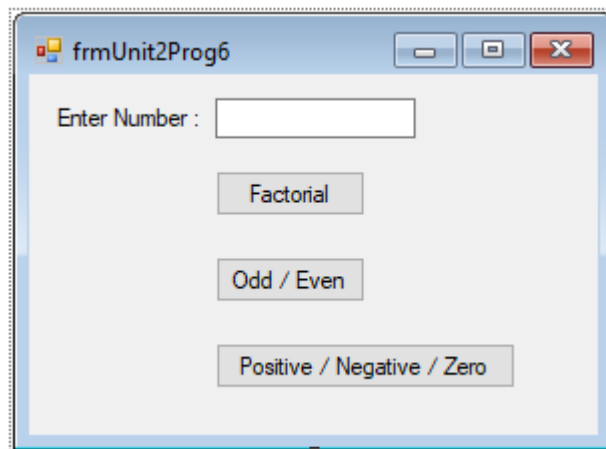# WPP using C# : UNIT 2 : Program 6 and 9

6. Accept no from user and perform following operations using user defined sub routines or functions: 1) Factorial of number 2) Odd/even


```csharp
namespace WindowsFormsApplication1
{
public partial classfrmUnit2Prog6 : Form
    {
public frmUnit2Prog6()
        {
                InitializeComponent();
        }

private void button1_Click(object sender, EventArgs e)
        {
                Int16 i = Convert.ToInt16(textBox1.Text);
                Int16 r;
                 r=fact(i);
                MessageBox.Show(r.ToString());
        }
Public  Int16  fact(Int16 i)
        {
                Int16 n=1;
                while (i > 0)
                 {
                        n*=i;
                    i -= 1;
                 }
                return n;
        }

Private void button2_Click(object sender, EventArgs e)
        {
                OE(Convert.ToInt16( textBox1.Text ));
        }
Public void OE(Int16 i)
        {
                if (i % 2 == 0)
                        MessageBox.Show("E");
                Else
                        MessageBox.Show("O");
        }
```

```csharp
private void button3_Click(object sender, EventArgs e)
    {
            PosNegZero(Convert.ToInt16(textBox1.Text));
    }
public void  PosNegZero(Int16 i)
    {

            if (i < 0)
                    MessageBox.Show("Neg");
            elseif (i == 0)
                    MessageBox.Show("Zero", "Message");
            else
                    MessageBox.Show("Positive");
    }


  }
}
```

9. Write function or subroutine to Find maximize, minimize value from an array and also to sort an array. <u>(Take two Label and two Listbox control on Form)</u>

```csharp
namespace WindowsFormsApplication1
{
Public partial class frmUnit2Prog9 : Form
  {
public frmUnit2Prog9()
    {
            InitializeComponent();
    }
private void button1_Click(object sender, EventArgs e)
    {
            Int16 [] x = new Int16 [6]{11,32,23,41,5,16};
            MinMaxFromArray(x);
    }

public void  MinMaxFromArray(Int16[] a)
    {
            Array.Sort (a);
            for(i=0;i<=5;i++)
             {
                    listBox1.Items.Add( a[i].ToString());
             }
            Label1.Text = "Minimum : " + a[0] ;
            Label2.Text = "Maximum : " + a[a.GetUpperBound(0)];
    }

private void button2_Click(object sender, EventArgs e)
    {
            Int16[] b = new Int16[5] { 2, 1, 6, 79, 9 };
            Array.Reverse(b);
            Int16 i;
            for(i=0;i<=4;i++)
             {
                    listBox2.Items.Add( b[i].ToString());
             }
    }
  }
 }
}
```