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| **Day 21 Assignment By**  **M.Pallavi** |

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| 1. Update your Visual Studio with .Net Framework Templates add on |
| C:\Users\Administrator\OneDrive\Desktop\day 21 image.png |

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| Program 2: Create a web service for Mathematical Operations. Example : Factorial, add, mul, div |
| [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1\_1)]  [System.ComponentModel.ToolboxItem(false)]  // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line.  // [System.Web.Script.Services.ScriptService]  public class WebService1 : System.Web.Services.WebService  {  [WebMethod]  public int Factorial(int n)  {  int fact=1;  for (int i = 1; i <= n; i++)  {  fact = fact \* i;  }  return fact;    }  [WebMethod]  public int Add(int a, int b)  {  return a + b;  }  [WebMethod]  public int Mul(int a, int b)  {  return a \* b;  }  [WebMethod]  public int Div(int a, int b)  {  return a / b;  }  }  } |
| Output:  C:\Users\Administrator\OneDrive\Desktop\day21 image 2.png |

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| 3. Create a Console Application and consume the webservice |
| using System;  using ClientPrgm.ServiceReference1;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ClientPrgm  {  internal class Program  {  static void Main(string[] args)  {  WebService1SoapClient w = new WebService1SoapClient();  Console.WriteLine(w.Add(1, 2));  Console.WriteLine(w.Div(1, 2));  Console.WriteLine(w.Mul(1, 2)) ;  Console.WriteLine(w.Factorial(5));  Console.ReadLine();  }  }  } |
| Output:  C:\Users\Administrator\OneDrive\Desktop\Day 21Screenshot 2022-02-21 120004.png |

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| 4. Create a Windows Forms application and consume the webservice  [ for finding factorial of the number ] |
| Code:  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;  using WindowsFormsApp1.ServiceReference1;  namespace WindowsFormsApp1  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void button1\_Click(object sender, EventArgs e)  {  int n=Convert.ToInt32(textBox1.Text);  WebService1SoapClient ws = new WebService1SoapClient();  textBox2.Text = ws.Factorial(5).ToString();  }  }  }  Output:  C:\Users\Administrator\OneDrive\Desktop\windowformscreenshot.png |

5. Put the screen shots of webservice running.

