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| **DAY 21 ASSIGNMENT**  **By**  **ARUN KUMAR YADLAPALLI**  **@**  **NB Healthcare Technologies PVT LTD.** |

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| **Q1) Create a web service for Mathematical Operations. Example : Factorial, add, mul, div** **Create a Console Application and consume the webservice.** |
| **Code:**  **Web code:**  //Author: Arun  //Purpose: Creating a web service and console application to consume that webservice  public class WebService1 : System.Web.Services.WebService  {    [WebMethod]  public string HelloWorld()  {  return "Hello World";  }    [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;  }      }  **Console Code:**  namespace Consolee1  {  internal class Program  {  static void Main(string[] args)  {  WebService1SoapClient ws = new WebService1SoapClient ();    Console.WriteLine(ws.Factorial (5));  Console.WriteLine(ws.Add (2,2));  Console.WriteLine(ws.Mul(2, 2));  Console.WriteLine(ws.Div (2, 2));    Console.ReadLine();  }  }  } |
| **Output :** |

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| **Q2) Create a web service for Mathematical Operations. Example : Factorial, add, mul, div**  **Create a Windows Forms application and consume the webservice [ for finding factorial of the number ]** |
| **Code:**  **Web code:**  namespace Web1  {  /// <summary>  /// Summary description for WebService1  /// </summary>  [WebService(Namespace = "http://tempuri.org/")]  [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 string HelloWorld()  {  return "Hello World";  }    [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;  }      }  }  **Desktop code:**    namespace Desktop1  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }    private void label1\_Click(object sender, EventArgs e)  {    }    private void button1\_Click(object sender, EventArgs e)  {  int input = Convert.ToInt32(textBox1.Text);  WebService1SoapClient ws = new WebService1SoapClient();  textBox2.Text = ws.Factorial(input).ToString();  }  }  } |
| **Output :** |