.NET PRACTICAL

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160470107053

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PRACTICAL:1

AIM: INTRODUCTION TO C#

```
Variables:
 Initialization
 Scope
 Constant
Predefined Data Types
 Value Types
 Reference TYpes
Flow Control
 Conditional Statements(if, switch)
 Loop(for, while, dowhile, foreach)
 Jump(goto, break, continue, return)
Eumerations
Passing Arguments
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace aim
{
    class Program
    {
              static int newint=100;
              public enum TimeOfDay
              {
              Morning = 0,
              Afternoon = 1,
              Evening = 2
```

```
}
        public static void Main(string[] args)
        {
           Console.WriteLine("\n integer types");
            sbyte sb = 10;
           short s = 33;
            int i = 10;
           long 1 = 33L;
           byte b = 22;
            ushort us = 33;
           uint ul = 33u;
           ulong ulo = 33ul;
            Console.WriteLine("\{0\},\{1\},\{2\},\{3\},\{4\},\{5\},\{6\},\{7\}", sb, s, i, l, b,
us, ul, ulo);
           float f = 1.122345656767f;
           double d = 12.1234455657878797;
           Console.Write("\nFloat and Double:\n");
            Console.WriteLine("{0} and \n{1}", f, d);
                   Console.WriteLine("decimal:\n{0} ",dec);
                   Console.WriteLine("\nBoolean:");
                   bool boolean =true;
                   Console.WriteLine("Status: " + boolean);
          // Console.ReadLine();
                   char character ='d';
                   Console.WriteLine(character);
                   character = '\0';
                   Console.WriteLine("Now null: " + character);
                   object o1 = "Hi, I am ALICE";
                   object o2 = 15.3454365;
                   string strObj = o1 as string;
                   Console.WriteLine(strObj);
                   Console.WriteLine(o1.GetHashCode() + " " + o1.GetType());
                   Console.WriteLine(o2.GetHashCode() + " " + o2.GetType());
```

```
Console.WriteLine(o1.Equals(o2));
string s1, s2;
s1 = "this is string";
s2 = s1;
Console.WriteLine("S1 is: {0} and s2 is {1}", s1, s2);
s2 = "other string";
Console.WriteLine("S1 is: {0} and s2 is {1}", s1, s2);
s1 = "c:C:\\Users\\Dell\\source\\repos\\aim";
Console.WriteLine(s1);
s1 = @"c:C:\Users\Dell\source\repos\aim\aim";
Console.WriteLine(s1);
s1 = @"We can also write
like this";
Console.WriteLine(s1);
bool isZero;
Console.WriteLine("\nFlow Control: (if)\ni is " + i);
if (i == 10)
isZero = true;
Console.WriteLine("i is Zero {0}",isZero);
}
else
isZero = false;
Console.WriteLine("i is Non - zero");
}
int integerA = 1;
Console.WriteLine("\nSwitch:");
switch (integerA)
{
case 1:
Console.WriteLine("integerA = 1");
break;
case 2:
```

Console.WriteLine("integerA = 2");

```
//goto case 3;
                    break;
                    case 3:
                    Console.WriteLine("integerA = 3");
                    break;
                    default:
                    Console.WriteLine("integerA is not 1, 2, or 3");
                    break;}
                    WriteGreeting(TimeOfDay.Morning);
                    Console.WriteLine("Argument is: {0}",args[1]);
                     void WriteGreeting(TimeOfDay timeOfDay)
                    {
                    switch (timeOfDay)
                    {
                    case TimeOfDay.Morning:
                    Console.WriteLine("Good morning!");
                    break;
                    case TimeOfDay.Afternoon:
                    Console.WriteLine("Good afternoon!");
                    break;
                    case TimeOfDay.Evening:
                    Console.WriteLine("Good evening!");
                    break;
                    default:
                    Console.WriteLine("Hello!");
                    break;
      }
             }
                    Console.WriteLine("Scope of Variables.\n1:");
            int newint=0;
                    int j;
            for (/*int*/ j = 0; j < 2; j++) //removing comment from for loop will
raise error
```

```
{
                //int j;
                //uncomment above line to error "A local variable named 'j' cannot
be declared in this
                //scope because it would give a different meaning to 'j', which is
already
                //used in a 'parent or current' scope to denote something else"
                Console.Write("{0} {1}\n", newint, Program.newint);
            }
                   Console.WriteLine("2:");
            for (int k = 0; k < 3; k++)
            {
                Console.Write("{0} ", k);
            }//Scope of k ends here
            Console.Write("\n");
            //Console.Write(k);
            //uncomment above line to see error "The name 'k' does not exist in
the current context"
            for (int k = 3; k > 0; k--)
            {
                Console.Write("{0} ", k);
            }//scope of k ends here again
            Console.WriteLine("Constants");
                    const int valConst = 100; // This value cannot be changed.
            Console.WriteLine("{0} is constant value", valConst);
            //valConst = 45;
            //uncomment above line to see error "The left-hand side of an
assignment must be a variable, property or indexer"
            //const only allow constant variables into the expression
            const int valConst2 = valConst + 9 /* + j*/;
            //remove comments from the above line to see error "The expression
being assigned to 'valConst2' must be constant"
            Console.WriteLine("Another Constant: {0}", valConst2);
```

```
Console.WriteLine("\nPredefined Data Types\n\nValue Types and
Reference Types");
            //Value Types
            int vali = 2, valj = vali;
            Console.WriteLine("vali is: {0} and valj is: {1}", vali, valj);
            valj = 90;
            Console.WriteLine("vali is: {0} and valj is: {1}", vali, valj);
            //Referece Types
            Vector x, y;
            x = new Vector();
            x.value = 3;
            y = x;
            Console.WriteLine("x is: {0} and y is:{1}", x.value, y.value);
            y.value = 234;
            Console.WriteLine("x is: {0} and y is:{1}", x.value, y.value);
            //If a variable is a reference, it is possible to indicate that it
does not refer to any object by setting its value to null:
            y = null;
            //Console.Write("Value for y is: " + y.value);
            //uncomment above line to see runtime exception
"System.NullReferenceException: Object reference not set to an instance of an
object."
//CTS
                    }
                    public class Vector
                    {
                    public int value;
                    }
}
}
```

```
integer types
10,33,10,33,22,33,33,33

Ploat and Double:
123246 sports
21,123445 sports
21,12445 sports
21,12445 sports
21,12445 sports
21,12445 sports
21,12445 sports
21,1245 sports
21,125 sports
21,1
```

PRACTICAL:2

Program 1

Write console based program in code behind language VB or C# to print following pattern.

```
@ @ @ @ @
@ @ @ @
@ @ @
@ @
(a)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace practical2
{
    class Program
    {
    static void Main(string[] args)
        {
            for(int i=5;i>0;i--)
            {
                for (int j = i; j > 0; j--)
                {
                    Console.Write("@");
                }
                Console.WriteLine(" ");
            }
            Console.ReadKey();
        }
    }
}
```



Program 2

Write console based program in code behind language VB or C# to print following pattern.

```
1
12
123
1234
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace practical2._1
{
    class Program
    {
        static void Main(string[] args)
        {
            for(int i=1;i<=5;i++)</pre>
```

```
{
                for(int j=i;j>0;j--)
                {
                     Console.Write("{0}",i);
                }
                Console.WriteLine("");
            }
            Console.ReadKey();
        }
    }
}
```

Program 3

Write C# code to prompt a user to input his/her name and country name and then the output will be shown as an example below:

Hello Ram from country India

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace practical2._2
{
```

```
class Program
{
    static void Main(string[] args)
    {
        string name;
        string country;
        Console.WriteLine("enter your name:");
        name=Console.ReadLine();
        Console.WriteLine("enter your country:");
        country = Console.ReadLine();
        Console.WriteLine("hello {0} from country {1}",name,country);
        Console.ReadKey();
    }
}
```



Program 4

What is inheritance? Create C# console application to define Car class and derive Maruti and Mahindra from it to demonstrate inheritance.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace practical2._3
{
    class car
    {
        public void Method1()
            Console.WriteLine("this is the method of car class");
        }
    }
    class maruti:car
        public void method2()
        {
            Console.WriteLine("this is the method of maruti");
            Console.ReadKey();
        }
    }
    class mahindra:car
    {
        public void method3()
        {
```

```
Console.WriteLine("this is the method of mahindra");
           }
     }
     class Program
     {
           static void Main(string[] args)
           {
                 mahindra m = new mahindra();
                 maruti m1 = new maruti();
                 m.Method1();
                 m1.Method1();
                 Console.ReadKey();
           }
     }
}
 this is the method of car class
this is the method of maruti
this is the method of car class
this is the method of mahindra
```

PRACTICAL:3

AIM: Method & constructor overloading

Program 1

Write a c# program to add two integers, two vectors and two metric using method overloading.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace p3
{
    public class Add
        public void add()
        {
            int[,] m1 = new int[50, 50];
            int[,] m2 = new int[50, 50];
            int[,] m3 = new int[50, 50];
            Console.WriteLine("enter size of array:");
            int size = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("enter first array:");
            for (int i = 0; i < size; i++)
            {
                for (int j = 0; j < size; j++)
                {
                    m1[i, j] = Convert.ToInt32(Console.ReadLine());
                }
            }
            Console.WriteLine("enter second array:");
            for (int i = 0; i < size; i++)
            {
                for (int j = 0; j < size; j++)
```

```
{
                m2[i, j] = Convert.ToInt32(Console.ReadLine());
            }
        }
        for (int i = 0; i < size; i++)
        {
            for (int j = 0; j < size; j++)
            {
                m3[i, j] = m1[i, j] + m2[i, j];
            }
        }
        Console.WriteLine("addition array:");
        for (int i = 0; i < size; i++)
        {
            Console.Write("\n");
            for (int j = 0; j < size; j++)
            {
                Console.Write("{0}\t", m3[i, j]);
            }
            Console.Write("\n");
        }
    }
    public int add(int a, int b)
    {
        return (a + b);
    }
}
    public class Vector
    {
        public void add()
            Console.WriteLine("enter first vector");
            int x = Convert.ToInt32(Console.ReadLine());
```

```
int y = Convert.ToInt32(Console.ReadLine());
                int z = Convert.ToInt32(Console.ReadLine());
                Console.WriteLine("enter second vector");
                int x1 = Convert.ToInt32(Console.ReadLine());
                int y1 = Convert.ToInt32(Console.ReadLine());
                int z1 = Convert.ToInt32(Console.ReadLine());
                int x2 = x + x1;
                int y2 = y + y1;
                int z2 = z + z1;
                Console.WriteLine("<" + x2 + "," + y2 + "," + z2 + ">");
            }
        }
  class Program
    {
        static void Main(string[] args)
        {
            Add a1 = new Add();
            Vector v1 = new Vector();
            v1.add();
            a1.add();
            int res=a1.add(1, 2);
            Console.Write("method overloading for addtion{0}",res);
            Console.ReadLine();
        }
    }
}
```

```
enter first vector

2
3
enter second vector

1
2
3
<2,4,6)
enter size of array:
2
enter first array:
1
2
3
4
enter second array:
1
5
enter second array:
1
6
enter second array:
1
7
enter second array:
1
8
enter second array:
1
```

Program 2

Write a c# program that create student object. Overload constror to create new instant with following details.

- 1. Name
- 2. Name, Enrollment
- 3. Name, Enrollment, Branch

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Reflection;
namespace p3a1
{
    class Program
    {
        public int ID { get; set; }
```

```
public string Name { get; set; }
        String name, branch;
        int enrol;
        public Program(String name)
        {
            this.name = name;
            Console.WriteLine("constructor 1:" + name);
        }
        public Program(String name, int enrol)
            this.name = name;
            this.enrol = enrol;
            Console.WriteLine("constructor 2:" + name + " " + enrol);
        }
        public Program(String name, int enrol, String branch)
        {
            this.name = name;
            this.enrol = enrol;
            this.branch = branch;
            Console.WriteLine("constructor 3:" + name + " " + enrol + " " +
branch);
        }
        static void Main(string[] args)
        {
Program p1 = new Program("bob");
            Program p2 = new Program("bob", 1);
            Program p3 = new Program("bob", 1, "computer");
             Console.ReadLine();
        }
  }
```

```
constructor 1:bob
constructor 2:bob 1
constructor 3:bob 1 computer
```

160470107053 REFLECTION

PRACTICAL:4

Create a c# program to find Methods, Properties and Constructors from class of running program.(Use Class from previous practical)

```
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Reflection;
using System;
namespace p2
    class P4
    {
        public static void Main() {
            Type T = Type.GetType("p2.Example");
            MethodInfo[] methods = T.GetMethods();
            foreach (MethodInfo method in methods)
            {
                Console.WriteLine(method.ReturnType + " " + method.Name);
            }
            PropertyInfo[] properties = T.GetProperties();
            Console.WriteLine("\nProperties");
            foreach (PropertyInfo property in properties)
            {
                Console.WriteLine(property.PropertyType + " " + property.Name);
            }
            Console.WriteLine("\nConstructors");
            ConstructorInfo[] constructors = T.GetConstructors();
            foreach (ConstructorInfo constructor in constructors)
            {
                Console.WriteLine(constructor.ToString());
            }
```

160470107053 REFLECTION

```
}
    class Example {
        public string name { get; set; }
        public int enrollment { get; set; }
        public string branch { get; set; }
        public Example() { }
        public Example(int enrollment, string name) {
            this.enrollment = enrollment;
            this.name = name;
        public Example(int enrollment, string name, string branch)
            this.enrollment = enrollment;
            this.name = name;
            this.branch = branch;
        }
        public void displayName() {
            Console.WriteLine("Name={0}",this.name);
        public void displayEnroll() {
            Console.WriteLine("Enrollment={0}",this.enrollment);
        public void displayBranch()
        {
            Console.WriteLine("Branch={0}", this.branch);
        }
}
OUTPUT:
 System.Int32 get_ID System.Void set_ID
 System.String get_Name System.Void set_Name
 System.Void printID
 System.Void printName System.String ToString
 System.Boolean Equals System.Int32 GetHashCode System.Type GetType
Properties
```

}

160470107053 REFLECTION

```
System.Int32 ID System.String Name
```

Constructors

Void .ctor(Int32, System.String) Void .ctor()

160470107053 FILE HANDLING

PRACTICAL:5

AIM: File Handling

Program 1:

Write a C# program to copy data from one file to another using StreamReader and StreamWriter class.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.IO;
namespace p2
{
    class P4_1
    {
        public static void Main(){
            string f1 = @"f1.txt";
            string f2 = @"f2.txt";
            using (StreamReader reader = new StreamReader(f1))
            using (StreamWriter writer = new StreamWriter(f2))
                writer.Write(reader.ReadToEnd());
        }
    }
}
```

160470107053 FILE HANDLING

Program 2:

Write a C# Program to Read Lines from a File until the End of File is reached.

```
using System;
using
System.Collections.Generic;
using System.Linq;
using System.Text;
 using System.IO;
 namespace P2
{
    public class CopyFile
    {
        public void copyFile(string f1, string f2)
        {
            using (StreamReader reader = new StreamReader(f1))
            using (StreamWriter writer = new StreamWriter(f2))
            {
                string line = null;
                while ((line = reader.ReadLine()) != null)
                    writer.WriteLine(line);
            }
        }
    }
    public class mmain{
          public static void
               Main(){
            CopyFile cp = new CopyFile();
            string f1 = @"E:\Sem-6\VS\p2\p2\f1.txt";
            string f2 = @"E:\Sem-6\VS\p2\p2\f2.txt";
            cp.copyFile(f1,f2);
        }
    }
}
```

160470107053 FILE HANDLING

Program 3:

Write a C# Program to List Files in a Directory.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.IO;
namespace p2
{
    class ListFile
    {
          public static void
               Main() {
            string[] Directories = Directory.GetDirectories(@"E:\Sem-6\VS");
            foreach (string dir in Directories)
                Console.WriteLine(dir);
            string[] files = Directory.GetFiles(@"E:\Sem-6\VS");
            foreach (string file in
                files)
                Console.WriteLine(fil
                e);
            Console.ReadKey();
        }
    }
}
```

```
Directories are:
F:\16ce012\P2
F:\16ce012\P3
F:\16ce012\P4
F:\16ce012\Practical4
F:\16ce012\Practical5
File are:
F:\16ce012\a.txt.txt
F:\16ce012\b.txt.txt
F:\16ce012\b.txt.txt
F:\16ce012\P1.cs
F:\16ce012\P1.cs
F:\16ce012\P1.exe
```

PRACTICAL:6

Program 1:

Create Windows Form Application for Student Registration and store student Details in DataBase.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;
using System.IO;
namespace StudentForm
    public partial class Form1 : Form
        string imgPath;
        public Form1()
            InitializeComponent();
        }
        private void btnsave_Click(object sender, EventArgs e)
            string gen = null;
            string subject = null;
            if (genMale.Checked == true) {
                gen = "m";
            if (genFemale.Checked == true) {
                gen = f;
            if (ck1.Checked == true) {
                subject = subject + " s1";
            if (ck2.Checked == true) {
                subject = subject + " s2";
            }
            string source = @"Data Source=Mishil-Patel\SQLExpress;Initial
Catalog=DemoDb;Integrated Security=True;Pooling=False";
```

```
string insert = "insert into tblstudent
(fname,lname,gender,subject,imgStudent) values ('" + txtfname.Text + "','" +
txtlname.Text + "','" + gen + "','" + subject + "','" + (imgPath == null ? "" :
imgPath) + "')";
            //MessageBox.Show(insert);
            //string insert = "insert into tblstudent(fname) values ('jhgjh')";
            SqlConnection conn = new SqlConnection(source);
            SqlCommand cmd = new SqlCommand(insert,conn);
            conn.Open();
            int i = cmd.ExecuteNonQuery();
            conn.Close();
        }
        private void Form1 Load(object sender, EventArgs e)
        }
        private void btnimg_Click(object sender, EventArgs e)
        {
            openFileDialog1.Filter = "Jpg|*.jpg";
            if (openFileDialog1.ShowDialog() == DialogResult.OK)
            {
                imgPath = openFileDialog1.SafeFileName;
                pictureBox.Image = Image.FromFile(openFileDialog1.FileName);
                //MessageBox.Show(imgPath);
            }
        }
    }
}
Program.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Windows.Forms;
namespace StudentForm
{
    static class Program
        /// <summary>
        /// The main entry point for the application.
```

```
/// </summary>
    [STAThread]
    static void Main()
    {
        Application.EnableVisualStyles();
        Application.SetCompatibleTextRenderingDefault(false);
        Application.Run(new Form1());
    }
}
```

OUTPUT:



PRACTICAL:7

Program 1:

ASP.NET Validation Control

RequiredFieldValidator, CompareValidator, RegularExpressionValidator, CustomValidator, RangeValidator, ValidationSummary

```
<%@ Page Title="Home Page" Language="C#" AutoEventWireup="true"</pre>
   CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>
<form id="form1" runat="server">
   <div>
      <+d>>
                <asp:Label runat="server" Text="Name"></asp:Label>
             
p;      
                <asp:TextBox ID="txtname" runat="server" ></asp:TextBox>
                <asp:RequiredFieldValidator ID="RequiredFieldValidator1"</pre>
runat="server"
                ControlToValidate="txtname"
ErrorMessage="RequiredFieldValidator"></asp:RequiredFieldValidator>
                <br />
            <asp:Label ID="Email" runat="server" Text="Email"></asp:Label>
             
p;       
                <asp:TextBox ID="txtemail" runat="server"></asp:TextBox>
                <asp:RegularExpressionValidator</pre>
ID="RegularExpressionValidator1" runat="server"
                ErrorMessage="RegularExpressionValidator"
                ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*.\w+([--.]\w+)*.
.]\w+)*"
                ControlToValidate="txtemail"></asp:RegularExpressionValidator>
```

160470107053 VALIDATION CONTROLS

```
<br />
             <asp:Label ID="Label3" runat="server"</pre>
Text="Password"></asp:Label>
             
p;  
                <asp:TextBox ID="txtpass" runat="server"</pre>
TextMode="Password"></asp:TextBox>
                <br />
             <asp:Label ID="Label4" runat="server" Text="Confirm</pre>
Password"></asp:Label>
                   
                <asp:TextBox ID="txtcpass" runat="server"</pre>
TextMode="Password"></asp:TextBox>
                <asp:CompareValidator ID="CompareValidator1" runat="server"</pre>
                 ControlToCompare="txtcpass" ControlToValidate="txtpass"
                 ErrorMessage="CompareValidator"></asp:CompareValidator>
                <br />
             <asp:Label ID="Label5" runat="server" Text="Sem"></asp:Label>
             
p;       
                <asp:TextBox ID="txtsem" runat="server"></asp:TextBox>
                <asp:RangeValidator ID="RangeValidator1" runat="server"</pre>
                  ControlToValidate="txtsem" ErrorMessage="RangeValidator"
MaximumValue="8"
                 MinimumValue="1"></asp:RangeValidator>
                <br />
                <asp:ValidationSummary ID="ValidationSummary1" runat="server"</pre>
/>
```

160470107053 VALIDATION CONTROLS

OUTPUT:

Name		RequiredFieldValidator
Email	abcde	RegularExpressionValidator
Password	•••	
Confirm Password	•••	CompareValidator
Sem	9	RangeValidator

- RequiredFieldValidator
- RegularExpressionValidator
- CompareValidator
- RangeValidator

Save

PRACTICAL:8

AIM: Introduction to Master Pages

Program 1:

Site1.Master:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WebApplication1
    public partial class Site1 : System.Web.UI.MasterPage
        protected void Page_Load(object sender, EventArgs e)
        {
        public Label LblHeader {
            get {
                return lblheader;
            }
        public Button BtnSearch {
            get {
                return btnsearch;
            }
        public TextBox TxtSearch {
            get {
                return txtsearch;
            }
        }
    }
}
WebForm1.aspx:
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"</pre>
AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication1.WebForm1" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1"</pre>
runat="server">
    <asp:TextBox ID="txtname" runat="server" ></asp:TextBox>
<asp:Button ID="Button1" runat="server" Text="Set Header" onclick="Button1_Click"</pre>
</asp:Content>
WebForm.aspx.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WebApplication1
    public partial class WebForm1 : System.Web.UI.Page
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            ((Site1)Master).LblHeader.Text = txtname.Text;
        }
    }
}
OUTPUT:
jkjk Button
Footer
```

Program 2:

WebForm2.aspx:

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master"</pre>
AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication1.WebForm2" %>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1"</pre>
runat="server">
    <asp:GridView ID="grdstudent" runat="server">
</asp:GridView>
</asp:Content>
WebForm2.aspx.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
namespace WebApplication1
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Init(object sender, EventArgs e)
            ((Site1)Master).BtnSearch.Click += new EventHandler(BtnSearch_Click);
        }
        void BtnSearch_Click(object sender, EventArgs e) {
            getData();
        }
        protected void Page_Load(object sender, EventArgs e)
        void getData() {
            string s= ((Site1)Master).TxtSearch.Text;
            Console.WriteLine(s);
            string source = @"Data Source=Mishil-Patel\SQLExpress;Initial
Catalog=DemoDb;Integrated Security=True;Pooling=False";
            string select = "select * from tblstudent where fname like '%"+
((Site1)Master).TxtSearch.Text + "%'";
            SqlConnection con = new SqlConnection(source);
            SqlCommand cmd = new SqlCommand(select, con);
```

```
con.Open();
SqlDataReader rdr = cmd.ExecuteReader();
grdstudent.DataSource = rdr;
grdstudent.DataBind();
con.Close();
}
}
}
```

OUTPUT:

Header



pkstudent	fname	lname	gender	subject	imgStudent
22	ABC	AAA	f	s1	IMG-20170326-WA0009.jpg

Footer

160470107053 WEB SERVICES

PRACTICAL:9

AIM: How to create Web Service and consume it.

Program:1

WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"</pre>
Inherits="WebApplication6.WebForm1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</pre>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
    <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br />
    <asp:RequiredFieldValidator ControlToValidate="TextBox1" ID="rfv1"</pre>
ErrorMessage="Please enter" runat="server"></asp:RequiredFieldValidator>
    <asp:RegularExpressionValidator runat="server" id="rexNumber"</pre>
controltovalidate="TextBox1" validationexpression="^[0-9]$" errormessage="Please
enter digit number!"></asp:RegularExpressionValidator>
<br /><br />
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br />
         <asp:RegularExpressionValidator runat="server"</pre>
id="RegularExpressionValidator1" controltovalidate="TextBox2"
validationexpression="^[0-9]$" errormessage="Please enter digit
number!"></asp:RegularExpressionValidator>
<br /><br />
<asp:RequiredFieldValidator ControlToValidate="TextBox2"</pre>
ID="RequiredFieldValidator1" runat="server" ErrorMessage="Please
enter"></asp:RequiredFieldValidator>
        <asp:Label ID="Label1" runat="server" Text="Result"></asp:Label><br />
        <asp:Button ID="Button1" runat="server" Text="+" onclick="Button1_Click"</pre>
            Width="53px" />
        <asp:Button ID="Button2" runat="server" Text="-" onclick="Button2_Click"</pre>
            Width="49px" />
        <asp:Button ID="Button3" runat="server" Text="/" onclick="Button3 Click"</pre>
            Width="45px" />
        <asp:Button ID="Button4" runat="server" Text="*" onclick="Button4_Click"</pre>
            Width="55px" />
    </div>
 </form>
</body>
</html>
```

WebForm.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WebApplication6
    public partial class WebForm1 : System.Web.UI.Page
        localhost.WebService1 calc = new localhost.WebService1();
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1 Click(object sender, EventArgs e)
        {
            Label1.Text = calc.Add(Convert.ToInt16(TextBox1.Text),
Convert.ToInt16(TextBox2.Text)).ToString();
        }
        protected void Button2_Click(object sender, EventArgs e)
        {
             Label1.Text = calc.Subtract(Convert.ToInt16(TextBox1.Text),
Convert.ToInt16(TextBox2.Text)).ToString();
        }
        protected void Button3_Click(object sender, EventArgs e)
        {
             Label1.Text = calc.Div(Convert.ToInt16(TextBox1.Text),
Convert.ToInt16(TextBox2.Text)).ToString();
        }
        protected void Button4_Click(object sender, EventArgs e)
```

WebService1.asmx.cs:

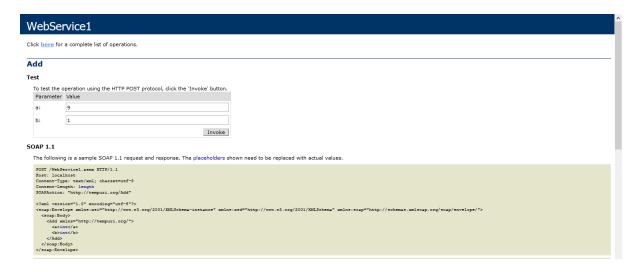
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
namespace WebApplication1
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = 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 Add(int a,int b)
        {
            return a + b;
        }
        [WebMethod]
        public int Subtract(int a, int b)
        {
            return a - b;
        }
```

```
[WebMethod]
public int Multiply(int a, int b)
{
    return a * b;
}

[WebMethod]
public int Div(int a, int b)
{
    return a / b;
}
```

OUTPUT:





WebService1 The following operations are supported. For a formal definition, please review the Service Description. • Add • <u>Div</u> • <u>HelloWorld</u> • Multiply • Subtract This web service is using http://tempuri.org/ as its default namespace. Recommendation: Change the default namespace before the XML Web service is made public. Each XML Web service needs a unique namespace in order for client applications to distinguish it from other services on the Web. http://tempuri.org/ is available for XML Web services that are under development, but published XML Web services should use a more permanent namespace. Your XML Web service should be identified by a namespace that you control. For example, you can use your company's Internet domain name as part of the namespace. Although many XML Web service namespaces look like URLs, they need not point to actual resources on the Web. (XML Web service namespaces are URIs.) For XML Web services creating using ASPNET, the default namespace can be changed using the WebService attribute's Namespace property. The WebService attribute is an attribute applied to the class that contains the XML Web service methods. Below is a code example that sets the namespace to "http://microsoft.com/webservices/": [WebService(Namespace="http://microsoft.com/webservices/")] public class MyWebService { // implementation } Visual Basic «WebService(Namespace:="http://microsoft.com/webservices/")> Public Class MyWebService 'implementation End Class (WebService(Namespace="http://microsoft.com/webservices/")] public ref class MyWebService { // implementation);