LAB Manual .Net Technology

Butani Akash

160470107006

VVP Engineering College,Rajkot

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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
Program 1
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, 1, 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 str0bj = 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
            {
```

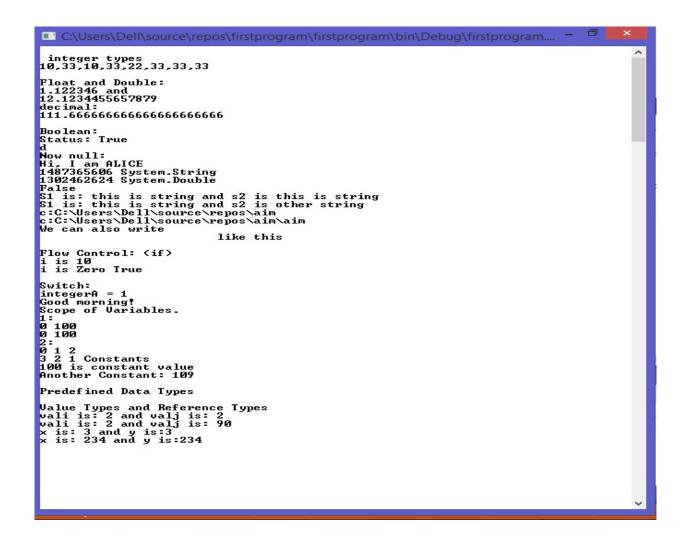
```
//int j;
                //uncomment above line to error "A local variable named 'j' cannot be
declared in this
                //scope because it would give a different meaning to 'j', which is
already
                //used in a 'parent or current' scope to denote something else"
                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;
}
}
```

<u>OutPut:</u>



VVPEC CE SEM 6 .NET

9

Practical 2

AIM: Inheritance

Program 1

Perform following programs in c#.

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

```
@@@@@
@@@@
@@@
@@
@
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();
}
```

OutPut:

Program 2

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=1;j<=i;j++)</pre>
                      {
               Console.Write(j+" ");
                      }
                Console.WriteLine();
                 }
                Console.ReadKey();
           }
     }
}
OutPut:
 Developer Command Prompt for VS 2017 - Pattern2.exe
C:\dotNet\Practical2(3)\ConsoleApp3>csc Pattern2.cs
Microsoft (R) Visual C# Compiler version 2.10.0.0 (b9fb1610)
Copyright (C) Microsoft Corporation. All rights reserved.
C:\dotNet\Practical2(3)\ConsoleApp3>Pattern2.exe
1
1 2
1 2 3
1 2 3 4
```

Program 3

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();
        }
    }
```

}

OutPut:

Program 4

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

```
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();
    }
```

}

OutPut:

```
C:\dotNet\Practical2(4)\Practical2(4)\csc Program.exe

C:\dotNet\Practical2(4)\Practical2(4)\csc Program.cs
Microsoft (R) Visual C# Compiler version 2.10.0.0 (b9fb1610)
Copyright (C) Microsoft Corporation. All rights reserved.

C:\dotNet\Practical2(4)\Practical2(4)\Program.exe
this is the method of car class
this is the method of car class
this is the method of maruti
this is the method of maruti
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 Practical3
{
    class Program
    {
        public void add(int a, int b)
        {
            int sum = a + b;
            Console.WriteLine("Addition is:{0}", sum);
        }
        public void add()
        {
            int i, j, n;
            int[,] arr1 = new int[50, 50];
            int[,] brr1 = new int[50, 50];
            int[,] crr1 = new int[50, 50];
            Console.Write("Input the size of the square matrix: ");
```

```
n = Convert.ToInt32(Console.ReadLine());
Console.Write("Input elements in the first matrix :\n");
for (i = 0; i < n; i++)
{
    for (j = 0; j < n; j++)
    {
        Console.Write("{0},{1}:", i, j);
        arr1[i, j] = Convert.ToInt32(Console.ReadLine());
    }
}
Console.Write("Input elements in the Second matrix :\n");
for (i = 0; i < n; i++)
{
    for (j = 0; j < n; j++)
    {
        Console.Write("{0},{1}:", i, j);
        brr1[i, j] = Convert.ToInt32(Console.ReadLine());
    }
}
Console.Write("\nThe First matrix is :\n");
for (i = 0; i < n; i++)
{
    Console.Write("\n");
    for (j = 0; j < n; j++)
        Console.Write("{0}\t", arr1[i, j]);
}
Console.Write("\nThe Second matrix is :\n");
for (i = 0; i < n; i++)
```

```
{
        Console.Write("\n");
        for (j = 0; j < n; j++)
            Console.Write("{0}\t", brr1[i, j]);
    }
    for (i = 0; i < n; i++)
    {
        for (j = 0; j < n; j++)
        {
            crr1[i, j] = arr1[i, j] + brr1[i, j];
        }
    }
    Console.Write("\nAddition of Two Matrix:\n");
    for (i = 0; i < n; i++)
    {
        Console.Write("\n");
        for (j = 0; j < n; j++)
        {
            Console.Write("{0}\t", crr1[i, j]);
        }
    }
}
public void add(Vector a, Vector b)
{
   Vector result=new Vector();
    result.x = a.x + b.x;
    result.y = a.y + b.y;
    result.z = a.z + b.z;
```

```
Console.WriteLine("Addition of Two vectors is:");
            Console.WriteLine("<" + result.x + "," + result.y + "," + result.z +</pre>
">");
        }
   static void Main(string[] args)
   {
        Program p = new Program();
       Console.WriteLine("Value of a:");
        int a = Convert.ToInt32(Console.ReadLine());
       Console.WriteLine("Value of b:");
        int b = Convert.ToInt32(Console.ReadLine());
       p.add(a, b);
        p.add();
       Vector v1 = new Vector();
       Vector v2 = new Vector();
           // float x, y, z;
        Console.WriteLine("Enter 1st vector");
       Console.WriteLine("X:", v1.x);
       v1.x=Convert.ToInt32( Console.ReadLine());
            Console.WriteLine("Y:", v1.y);
           v1.y= Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Z:", v1.z);
          v1.z= Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter 2nd vector");
            Console.WriteLine("X:", v2.x);
            v2.x = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Y:", v2.y);
            v2.y = Convert.ToInt32(Console.ReadLine());
```

OutPut:

```
Developer Command Prompt for VS 2017 - Overloading.exe
Value of b:
1
Addition is:3
Input the size of the square matrix: 2
Input elements in the first matrix:
0,0:1
0,1:2
1,0:3
1,1:4
Input elements in the Second matrix:
0,0:5
0,1:6
1,0:7
1,1:8
The First matrix is:
1 2
3 4
The Second matrix is:
5 6
7 8
Addition of Two Matrix:
6 8
10 12
Enter 1st vector
X:
1
Y:
2
Z:
3
Enter 2nd vector
X:
4
Y:
5
Z:
6
Addition of Two vectors is:
(5,7,9>
```

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;
namespace P3_2_
{
    class Program
    {
        public int ID { get; set; }
        public string Name { get; set; }
        String name, branch;
        int enroll;
        Program(String Stname)
        {
            name = Stname;
            Console.WriteLine("1st Constructor:");
            Console.WriteLine("Student Name is "+Stname);
        }
        Program(String Stname, String Stbranch)
```

```
{
            name = Stname;
            branch = Stbranch;
            Console.WriteLine("2nd Constructor:");
            Console.WriteLine(Stname+" is in "+Stbranch+" branch");
        }
        Program(String Stname, String Stbranch ,int Stenroll)
        {
            name = Stname;
            branch = Stbranch;
            enroll = Stenroll;
            Console.WriteLine("3rd Constructor:");
            Console.WriteLine(Stname + " is in " + Stbranch+" having "+Stenroll+"
Enrollment ");
        }
        static void Main(string[] args)
        {
            Program p = new Program("bob");
            Program p1 = new Program("bob",1);
            Program p2 = new Program("bob",1,"Computer");
            Console.ReadLine();
        }
    }
}
```

160470107040	METHOD & CONSTRUCTOR OVERLOADING
<u>OutPut:</u>	

Practical 4

AIM: Reflection

Program 1

```
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 void printID()
         {
             Console.WriteLine("ID is: {0}", this.ID);
         }
         public void printName()
         {
             Console.WriteLine("Name is: {0}", this.Name);
```

```
}
      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)
       {
try
            {
                Type T = Type.GetType("p3a1.Program");
                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());
                }
           Program p1 = new Program("bob");
           Program p2 = new Program("bob", 1);
           Program p3 = new Program("bob", 1, "computer");
           Console.ReadLine();
catch (Exception e)
```

```
Console.WriteLine(e);
Console.ReadLine();
}
}
}
```

Practical 5

AIM: Files Operations

Program 1

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.Threading.Tasks;
using System.IO;
namespace Practical5
{
    class Program
    {
        static void Main(string[] args)
        {
            CopyFile cp = new CopyFile();
            String file1= @"C:\dotNet\file1.txt";
            String file2 = @"C:\dotNet\richa\file2.txt";
            cp.copyFile(file1, file2);
        }
    }
    public class CopyFile
    {
        public void copyFile(String file1,String file2)
```

```
{
    using (StreamReader reader = new StreamReader(file1))
    {
        using (StreamWriter writer = new StreamWriter(file2))
        {
            String line = null;
            while ((line = reader.ReadLine()) != null)
            {
                 writer.WriteLine(line);
            }
        }
     }
}
```

<u>OutPut:</u>

Program 2

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.Threading.Tasks; using System.IO; namespace Practical5_1_ { class Program { static void Main() { StreamReader reader = new StreamReader("teststream.txt"); using (reader) { int lineNumber = 0; String line = reader.ReadLine(); while(line!=null) { lineNumber++; Console.WriteLine("Line {0}:{1}", lineNumber, line); line = reader.ReadLine(); } Console.ReadLine();

```
}
}
```

<u>Output:</u>

```
■ C:\dotNet\Practical5(1)\Practical5(1)\bin\Debug\Practical5(1).exe — X
Line 1:Richa Shah
Line 2:Vvp Engineering College
Line 3:Rajkot
Line 4:Kalawad Road
```

Program 3

```
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.Threading.Tasks;
using System.IO;
namespace Practical5_2_
{
    class Program
    {
        static void Main(string[] args)
        {
           string[] Directories =
Directory.GetDirectories(@"C:\Users\RICHA\source\repos");
            Console.WriteLine("All the Directories are:");
            foreach (string dir in Directories)
            {
                //Console.WriteLine("All the Directories are:");
                Console.WriteLine(dir);
            }
            string[] files = Directory.GetFiles(@"C:\Users\RICHA\source\repos");
            Console.WriteLine("All the Files are:");
            foreach (string file in files)
            {
               // Console.WriteLine("All the Files are:");
```

```
Console.WriteLine(file);
}
Console.ReadLine();
}
}
```

160470107040 FILE OPERATIONS

Output:

160470107040	FILE OPERATIONS

160470107040 Student registration

Practical 6

AIM: Student Registration

Program 1

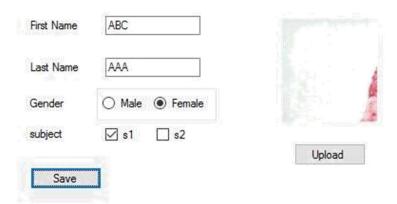
Create Windows Form Application for Student Registration and store student Details in DataBase.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
using System.IO;
namespace P6_form_
publicpartialclassForm1 : Form
string imgPath;
public Form1()
            InitializeComponent();
privatevoid label1_Click(object sender, EventArgs e)
        }
privatevoid Form1_Load(object sender, EventArgs e)
privatevoid button3_Click(object sender, EventArgs e)
            Environment.Exit(0);
privatevoid button2 Click(object sender, EventArgs e)
string source = @"C:\DOTNET\P6(FORM)\P6(FORM)\PROPERTIES\DATABASE1.MDF";
string select = "select count(*) from tblStudent";
            SqlConnection conn = new SqlConnection(source);
            SqlCommand cmd = new SqlCommand(select, conn);
            conn.Open();
int i = Convert.ToInt16(cmd.ExecuteScalar());
int textBox1 = i + 1;
```

160470107040 Student registration

```
string insert = "insert into tblStudent(Name,Email,Phone No,Gender,Address,imgStudent)
values ( " + textBox1 + ",'" + textBox3 + "','" + textBox4 + "','" + radioButton1 + "','"
+ richTextBox1 + "','" + (imgPath == null ? "" : imgPath) + "' )";
             cmd = new SqlCommand(insert, conn);
             i = cmd.ExecuteNonQuery();
//object imgStudent = null;
if (imgPath != null)
            imgStudent.Image.Save(imgPath);
             MessageBox.Show("You are Done!!!");
             InitializeComponent();
         }
privatevoid button1_Click(object sender, EventArgs e)
             openFileDialog1.Filter = "Jpg|*.jpg";
if (openFileDialog1.ShowDialog() == DialogResult.OK)
                  imgPath = @"C:\Pictures" + openFileDialog1.SafeFileName;
                  imgStudent.Image = Image.FromFile(openFileDialog1.FileName);
         }
    }
}
```

Output:



160470107040	Student registration

160470107040 Validation Controls

Practical 7

AIM: Validation Controls

```
Program 1
```

```
<<@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"</pre>
Inherits="WebApplication1.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 style="height: 19px">
<form id="form1" runat="server">
>
        Name:<asp:TextBox ID="txtName" runat="server" ForeColor="Red"
            ToolTip="Enter Your Name"></asp:TextBox>
<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"</pre>
            ControlToValidate="txtName" Display="Dynamic" ErrorMessage="Enter Your
Name"
            ForeColor="Red" ToolTip="Enter Your Name">*</asp:RequiredFieldValidator>
>
        Email:<asp:TextBox ID="txtEmail" runat="server" ForeColor="Red"</pre>
            ToolTip="Enter Your Email"></asp:TextBox>
<asp:RegularExpressionValidator ID="RegularExpressionValidator3" runat="server"</pre>
            ControlToValidate="txtEmail" Display="Dynamic" ErrorMessage="Enter Valid
Email"
```

160470107040 Validation Controls

```
ForeColor="Red" ToolTip="Enter Your Email"
           ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)
.]\w+)*">*</asp:RegularExpressionValidator>
>
        Password:<asp:TextBox ID="txtPass" runat="server"></asp:TextBox>
   Confirm Password:<asp:TextBox ID="txtConfirm"</pre>
runat="server"></asp:TextBox>
<asp:CompareValidator ID="CompareValidator1" runat="server"</pre>
            ControlToCompare="txtPass" ControlToValidate="txtConfirm"
            ErrorMessage="Enter Same Password" ForeColor="Red"
           ToolTip="Enter Same Password">*</asp:CompareValidator>
>
        Semester:<asp:TextBox ID="txtSem" runat="server"></asp:TextBox>
<asp:RangeValidator ID="RangeValidator1" runat="server"</pre>
            ControlToValidate="txtSem" ErrorMessage="Enter Semester between 1 to 8"
            ForeColor="Red" MaximumValue="8" MinimumValue="1"
            ToolTip="Enter Valid Semester" Type="Integer">*</asp:RangeValidator>
>
        PhoneNo:<asp:TextBox ID="txtPhone" runat="server"></asp:TextBox>
<asp:RegularExpressionValidator ID="RegularExpressionValidator4" runat="server"</pre>
           ControlToValidate="txtPhone" ErrorMessage="Enter Valid PhoneNo"
ForeColor="Red"
            ToolTip=" Enter Valid Phone Number" ValidationExpression="[0-
9]{10}">*</asp:RegularExpressionValidator>
<asp:Button ID="btnSave" runat="server" Text="Save" />
```

160470107040 Validation Controls

<asp:ValidationSummary ID="ValidationSummary1" runat="server" />
</form>
</body>

Output:

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

- RequiredFieldValidator
- RegularExpressionValidator
- CompareValidator
- RangeValidator

Save

160470107040 Master Page

Practical 8

AIM: Master Page Program 1

Webform2.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 WebApplication5
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Init(object sender, EventArgs e)
        {
            ((Site1)Master).BtnSearch.Click += new EventHandler(btnSearch_Click);
        }
        protected void btnSearch_Click(object sender, EventArgs e)
        {
            GetData();
        }
        protected void Page_Load(object sender, EventArgs e)
```

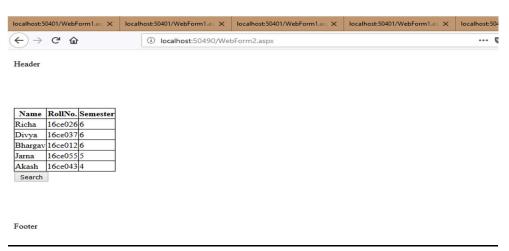
160470107040 Master Page

```
{
        }
        void GetData()
        {
            string source = @"Data
Source=.\SQLEXPRESS;AttachDbFilename=C:\Users\cecomp1\Documents\emp.mdf;Integrated
Security=True;Connect Timeout=30;User Instance=True";
            string select ="select * from tblStudent";
            SqlConnection conn = new SqlConnection(source);
            SqlCommand cmd = new SqlCommand(select, conn);
            conn.Open();
            SqlDataReader reader = cmd.ExecuteReader();
            grdEmp.DataSource = reader;
            grdEmp.DataBind();
            conn.Close();
        }
    }
}
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
```

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Webform1.cs

Output:



Practical 9

AIM: Web Services

Program 1

Create web service & consume it

WebService1.asmx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
namespace Service {
[WebService(Namespace = "http://tempuri.org/")] [WebServiceBinding(ConformsTo =
WsiProfiles.BasicProfile1_1)] [System.ComponentModel.ToolboxItem(false)]
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 Sub(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;
}
}
WebForm1.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"</pre>
Inherits="WebService.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">
```

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<head runat="server">

```
<title></title>
</head>
<body> <form id="form1" runat="server">
<div>
<asp:TextBox ID="txtA" runat="server"></asp:TextBox> <asp:RequiredFieldValidator</pre>
ID="RequiredFieldValidator1" runat="server" ControlToValidate="txtA"
ErrorMessage="RequiredFieldValidator">
</asp:RequiredFieldValidator>
 <asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server"</pre>
ControlToValidate="txtA" ErrorMessage="RegularExpressionValidator"
ValidationExpression="^[0-9]+">
</asp:RegularExpressionValidator>
<br />
<asp:TextBox ID="txtB" runat="server"></asp:TextBox> <asp:RequiredFieldValidator</pre>
ID="RequiredFieldValidator2" runat="server" ControlToValidate="txtB"
ErrorMessage="RequiredFieldValidator">
</asp:RequiredFieldValidator> <asp:RegularExpressionValidator</pre>
ID="RegularExpressionValidator1" runat="server" ControlToValidate="txt8"
ErrorMessage="RegularExpressionValidator" ValidationExpression="^[0-
9]+"></asp:RegularExpressionValidator>
<br />
<asp:Button ID="btnadd" runat="server" onclick="btnadd_Click" Text="Add" />
 <asp:Button ID="btnsub" runat="server" onclick="btnsub_Click" Text="Sub" />
 <asp:Button ID="btnmul" runat="server" onclick="btnmul_Click" Text="Mul" />
<asp:Button ID="btndiv" runat="server" onclick="btndiv Click" Text="Div" /> <br />
 <asp:Label ID="lblresult" runat="server" Text="Result">
</asp:Label>
</div>
 </form>
```

```
</body>
```

WebForm1.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
 using System.Web.UI.WebControls;
namespace WebService {
 public partial class WebForm1 : System.Web.UI.Page { localhost.WebService1 calc =
new localhost.WebService1();
protected void Page_Load(object sender, EventArgs e) {
 }
protected void btnadd_Click(object sender, EventArgs e)
{
lblresult.Text = calc.Add(Convert.ToInt16(txtA.Text),
Convert.ToInt16(txtB.Text)).ToString();
 protected void btnsub_Click(object sender, EventArgs e)
 lblresult.Text = calc.Sub(Convert.ToInt16(txtA.Text),
Convert.ToInt16(txtB.Text)).ToString();
}
protected void btnmul_Click(object sender, EventArgs e) {
```

```
lblresult.Text = calc.Mul(Convert.ToInt16(txtA.Text),
Convert.ToInt16(txtB.Text)).ToString();
}
protected void btndiv_Click(object sender, EventArgs e) {
lblresult.Text = calc.Div(Convert.ToInt16(txtA.Text),
Convert.ToInt16(txtB.Text)).ToString();
}
}
```

Output:

