Name: Sudeep J. Sawant

Roll No: A040 Class: Bsc IT

Subject: Advanced Web Programming

Practical No 1 Working with basic c# and ASP.NET

1a. Create an application that obtains four int values from the user and displays the product.

To Perform c# programs we need to set the path on cmd:

>set path="C:\Windows\Microsoft.NET\Framework64\v4.0.30319"

Code:

```
using System;
class Demo {
    static void Main (String[] args)
    {
        int a=Convert.ToInt32(args[0]);
        int b=Convert.ToInt32(args[1]);
        int c=Convert.ToInt32(args[2]);
        int d=Convert.ToInt32(args[3]);

        int c = a*b*c*d;
        Console.WriteLine("Product = {0} ", c);
    }
}
```

Compile and Run:

```
D:\ty\awp\pracitcals>set path="C:\Windows\Microsoft.NET\Framework64\v4.0.30319"

D:\ty\awp\pracitcals>path
PATH="C:\Windows\Microsoft.NET\Framework64\v4.0.30319"

D:\ty\awp\pracitcals>csc practical1a.cs
Microsoft (R) Visual C# Compiler version 4.8.4084.0

for C# 5
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This compiler is provided as part of the Microsoft (R) .NET Framework, but only supports language versions up to C# 5, w hich is no longer the latest version. For compilers that support newer versions of the C# programming language, see http://go.microsoft.com/fwlink/?LinkID=533240

D:\ty\awp\pracitcals>practical1a 10 20 30 40
Product = 240000

D:\ty\awp\pracitcals>
```

1b. Create an application to demonstrate string operations.

```
Code:
```

```
using System;
using System. Globalization;
class StrOps {
  static void Main() {
    string str1 = "This is string 1.";
    string str2 = "This is string 2.";
    string str3 = "C# strings are powerful.";
    string strUp, strLow;
    int result, idx;
    Console.WriteLine("str1: " + str1);
    Console.WriteLine("Length of str1: " + str1.Length);
    // Create upper- and lowercase versions of str1.
    strLow = str1.ToLower(CultureInfo.CurrentCulture);
    strUp = str1.ToUpper(CultureInfo.CurrentCulture);
    Console.WriteLine("Lowercase version of str1:\n " +strLow);
    Console.WriteLine("Uppercase version of str1:\n" +strUp);
    Console.WriteLine();
    // Display str1, one char at a time.
    Console.WriteLine("Display str1, one char at a time.");
    for(int i=0; i < str1.Length; i++)
      Console.Write(str1[i]);
    Console.WriteLine("\n");
    // Compare strings using == and !=. These comparisons are ordinal.
    if(str1 == str2)
      Console.WriteLine("str1 == str2");
    else
      Console.WriteLine("str1 != str2");
    if(str1 == str3)
      Console.WriteLine("str1 == str3");
    else
      Console.WriteLine("str1 != str3");
    // This comparison is culture-sensitive.
    result = string.Compare(str1, str3, StringComparison.CurrentCulture);
    if(result == 0)
      Console.WriteLine("str1 and str3 are equal");
    else if(result < 0)
      Console.WriteLine("str1 is less than str3");
      Console.WriteLine("str1 is greater than str3");
    Console.WriteLine();
  }
```

Output:

```
D:\ty\awp\pracitcals>csc 1b_string.cs
Microsoft (R) Visual C# Compiler version 4.8.4084.0

for C# 5
Copyright (C) Microsoft Corporation. All rights reserved.

This compiler is provided as part of the Microsoft (R) .NET Framework, but only supports language versions up to C# that support newer versions of the C# programming language, see http://go.microsoft.com/fwlink/?LinkID=533240

1b_string.cs(9,21): warning CS0168: The variable 'idx' is declared but never used

D:\ty\awp\pracitcals>1b_string
str1: This is string 1.

Length of str1: 17
Lowercase version of str1: this is string 1.

Uppercase version of str1: THIS IS STRING 1.

Display str1, one char at a time. This is string 1.

str1 != str2
str1 != str2
str1 != str3
str1 is greater than str3
```

1c. Create an application that receives the (Student Id, Student Name, Course Name, Date of Birth) information from a set of students. The application should also display the information of all the students once the data entered.

Code:

```
using System;
struct Student{
  int id, dd, mm, yy;
  string name, course;
  public void Accept(){
    Console.WriteLine("Enter id: ");
    id = int.Parse(Console.ReadLine());
    Console.WriteLine("Enter name: ");
    name = Console.ReadLine();
    Console.WriteLine("Enter course: ");
    course = Console.ReadLine();
    Console.WriteLine("Enter date of birth: ");
    dd = int.Parse(Console.ReadLine());
    Console.WriteLine("Enter month of birth: ");
    mm = int.Parse(Console.ReadLine());
    Console.WriteLine("Enter year of birth: ");
    yy = int.Parse(Console.ReadLine());
    Console.WriteLine();
  }
  public void Display(){
    Console.WriteLine("STUDNET INFORMATION");
    Console.WriteLine("Student id = "+ id);
    Console.WriteLine("Student name = "+ name);
    Console.WriteLine("Student course = "+ course);
    Console.WriteLine("Date of birth = "+dd+"-"+mm+"-"+yy);
  }
}
public class School{
  public static void Main(){
    Student[] s = new Student[2];
    for(int i=0; i<s.Length; i++){</pre>
      s[i].Accept();
    }
    for(int i=0; i<s.Length; i++){
```

```
s[i].Display();
}
Console.Read();
}
```

Output:

```
C:\Windows\System32\cmd.exe - 1c_student
D:\ty\awp\pracitcals>1c_student
Enter id:
40
Enter name:
Sudeep
Enter course:
BscIT
Enter date of birth:
10
Enter month of birth:
11
Enter year of birth:
2001
Enter id:
81
Enter name:
kiran
Enter course:
bcom
Enter date of birth:
31
Enter month of birth:
12
Enter year of birth:
2001
STUDNET INFORMATION
Student id = 40
Student name = Sudeep
Student course = BscIT
Date of birth = 10-11-2001
STUDNET INFORMATION
Student id = 81
Student name = kiran
Student course = bcom
Date of birth = 31-12-2001
```

1d. Create an application to demonstrate following operations

i. Generate Fibonacci series.

```
code:
using System;

class Fibo{

static void Main(String[] args)
{
  int a=0,b=1,sum,n;
  n=Convert.ToInt32(args[0]);
  Console.WriteLine(a);
  Console.WriteLine(b);

for(int i=0; i<n-2; i++){
    sum=a+b;
    a=b;
    b=sum;
    Console.WriteLine(sum);
}
</pre>
```

Output:

```
D:\ty\awp\pracitcals>fibo 10
Enter length:
0
1
1
2
3
5
8
13
21
34
D:\ty\awp\pracitcals>
```

ii. Test for prime numbers.

```
Code:
using System;

class Prime{

static void Main(String[] args)
{
```

```
int n;
    int n, mark=1;
    Console.WriteLine("Enter number:");
    n=Convert.ToInt32(Console.ReadLine());
    for(int i=2; i<n; i++){
      if(n\%i==0){
         mark=0;
      }
    }
    if(mark==1 && n!=1){
      Console.WriteLine("Yes It is prime number");
    }
    else{
      Console.WriteLine("Not a prime number");
    }
  }
}
```

Output:

```
D:\ty\awp\pracitcals>prime
Enter number:
2
Yes It is prime number

D:\ty\awp\pracitcals>prime
Enter number:
7
Yes It is prime number

D:\ty\awp\pracitcals>prime
Enter number:
18
Not a prime number

D:\ty\awp\pracitcals>
```

iii. Testforvowels.

```
code:
using System;

class Vowel{
   static void Main(String[] args)
   {
      Char ch;
```

```
Console.WriteLine("Enter character: ");
    ch=Convert.ToChar(Console.ReadLine());
    if(ch=='a'|| ch=='A'||ch=='e'|| ch=='E'||ch=='i'|| ch=='I'||ch=='o'||
ch=='O'||ch=='u'|| ch=='U'){
    Console.WriteLine(ch+" is vowel");
    }
    else{
        Console.WriteLine(ch+" is not a vowel");
    }
}
```

Output:

```
D:\ty\awp\pracitcals>vowel
Enter character :
Q
Q is not a vowel

D:\ty\awp\pracitcals>vowel
Enter character :
E
E is vowel
```

iv. Use of foreach loop with arrays

```
Code:
using System;
class ForEachExample{
  public static void Main(){
    string[] names = {"kiran", "akash", "shreysh", "sharaddha", "pooja"};
    Console.WriteLine("Names:");
    foreach(string n in names){
        Console.WriteLine(n);
    }
}
```

Output:

```
D:\ty\awp\pracitcals>foreach
Names:
kiran
akash
shreysh
sharaddha
pooja
```

v. Reverse a number and find sum of digits of a number.

```
Code:
```

```
using System;
class ReverseNumber{
  static void Main(String[] args){
    int n,rem,sum=0,rev=0;
    Console.WriteLine("Enter number: ");
    n=Convert.ToInt32(Console.ReadLine());
    while(n!=0){
    rem = n % 10;
    sum=sum+rem;
    rev = (rev * 10) + rem;
    n = n/10;
    }
    Console.WriteLine("Reverse number = "+ rev);
    Console.WriteLine("Sum = "+sum);
  }
}
```

Output:

```
D:\ty\awp\pracitcals>csc 1c_reverse.cs
Microsoft (R) Visual C# Compiler version 4.8.4084.0
for C# 5
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D:\ty\awp\pracitcals>1c_reverse
Enter number:
882814
Reverse number = 418288
Sum = 31
```

Practical 2 Working with Object Oriented C# and ASP .NET

2a. Create simple application to perform following operation

Output:

}

```
D:\ty\awp\pracitcals>csc factorial.cs
Microsoft (R) Visual C# Compiler version 4.8.4084.0
for C# 5
Copyright (C) Microsoft Corporation. All rights reserved.

This compiler is provided as part of the Microsoft (R) .NET Fr
hich is no longer the latest version. For compilers that support
://go.microsoft.com/fwlink/?LinkID=533240

D:\ty\awp\pracitcals>factorial
Enter the Number

5
Factorial of Given Number is: 120
```

iv. Temperature Converstion

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace temperatureconversion
class Program
static void Main(string[] args)
int celsius, faren;
Console.WriteLine("Enter the Temperature in Celsius(°C):");
celsius = int.Parse(Console.ReadLine());
faren = (celsius * 9) / 5 + 32;
Console.WriteLine("OTemperature in Fahrenheit is(°F): " + faren);
Console.ReadLine();
}
}
}
```

Output:

```
D:\ty\awp\pracitcals>csc temperature.cs
Microsoft (R) Visual C# Compiler version 4.8.4084.0
for C# 5
Copyright (C) Microsoft Corporation. All rights reserved.

This compiler is provided as part of the Microsoft (R) .NET Fr.
hich is no longer the latest version. For compilers that suppo
://go.microsoft.com/fwlink/?LinkID=533240

D:\ty\awp\pracitcals>temperature
Enter the Temperature in Celsius(°C):
25
0Temperature in Fahrenheit is(°F): 77
```

2b Create simple application to demonstrate use of following concepts

D:\ty\awp\pracitcals>

i. function overloading

```
code:
using System;
namespace swap
class Overloading
public void swap(ref int n, ref int m)
int t;
t = n;
n = m;
m = t;
}
public void swap(ref float f1, ref float f2)
float f;
f = f1;
f1 = f2;
f2 = f;
}
class program
static void Main(string[] args)
Overloading objOverloading = new Overloading();
int n = 10, m = 20;
objOverloading.swap(ref n, ref m);
Console.WriteLine("N=" + n + "\tM=" + m);
float f1 = 10.5f, f2 = 20.6f;
objOverloading.swap(ref f1, ref f2);
Console.WriteLine("F1=" + f1 + "\tF2=" + f2);
}
}
Output:
            D:\ty\awp\pracitcals>csc func_overloading.cs
            Microsoft (R) Visual C# Compiler version 4.8.4084.0
            for C# 5
            Copyright (C) Microsoft Corporation. All rights reserved.
            This compiler is provided as part of the Microsoft (R) .NET Frame
            hich is no longer the latest version. For compilers that support
            ://go.microsoft.com/fwlink/?LinkID=533240
            D:\ty\awp\pracitcals>func_overloading
            N=20
                  M=10
            F1=20.6 F2=10.5
```

Practical 3 Working with Web Forms and Controls

- 3b. Demonstrate the use of Calendar control to perform following operations.
 - a. Display message in calender control

```
Webpage code:
```

```
<@ Page Language="C#" AutoEventWireup="true" CodeFile="prac3b.aspx.cs"
Inherits="prac3b" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
 <asp:Calendar ID="Calendar1" runat="server" BackColor="#FFFFCC"
BorderColor="#FFCC66" BorderWidth="1px" Caption="Calender Page"
DayNameFormat="Shortest" FirstDayOfWeek="Monday" Font-Names="Verdana" Font-
Size="8pt" ForeColor="#663399" Height="200px" NextMonthText=">>"
PrevMonthText="<&lt;" SelectedDate="2020-09-26" ShowGridLines="True"
Width="220px" onselectionchanged="Calendar1 SelectionChanged"
ondayrender="Calendar1_DayRender">
  <DayHeaderStyle BackColor="#FFCC66" Font-Bold="True" Height="1px" />
  <NextPrevStyle Font-Size="9pt" ForeColor="#FFFFCC" />
  <OtherMonthDayStyle ForeColor="#CC9966" />
  <SelectedDayStyle BackColor="#CCCCFF" Font-Bold="True" />
  <SelectorStyle BackColor="#FFCC66" />
  <TitleStyle BackColor="#990000" Font-Bold="True" Font-Size="9pt" ForeColor="#FFFFCC"
/>
   <TodayDayStyle BackColor="#FFCC66" ForeColor="White" />
</asp:Calendar><br />
  <asp:Button ID="Button1" runat="server" Text="Button" onclick="Button1 Click"/>
    <br />
    <br />
  <asp:Button ID="Button2" runat="server" Text="Button" onclick="Button2_Click"/>
  <br />
  <br />
  <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    </form>
</body>
</html>
```

```
Code behind file:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class prac3b: System.Web.UI.Page
{
  protected void Page_Load(object sender, EventArgs e)
  }
  protected void Button1_Click(object sender, EventArgs e)
    Label1.Text = Calendar1.SelectedDate.ToShortDateString();
  }
  protected void Button2_Click(object sender, EventArgs e)
    Label1.Text = "";
    foreach (DateTime dt in Calendar1.SelectedDates)
      Label1.Text += dt.ToLongDateString() + "<br />";
    }
 }
  protected void Calendar1_SelectionChanged(object sender, EventArgs e)
    Label1.Text = Calendar1.SelectedDate.ToShortDateString();
  }
  protected void Calendar1_DayRender(object sender, DayRenderEventArgs e)
  {
    // Check for May 5 in any year, and format it.
    if (e.Day.Date.Day == 10 && e.Day.Date.Month == 11)
    {
      e.Cell.BackColor = System.Drawing.Color.LimeGreen;
      // Add some static text to the cell.
      Label lbl = new Label();
      lbl.Text = "<br />My Birthday!";
      e.Cell.Controls.Add(lbl);
      Image img = new Image();
```

```
img.Height = 10;
img.Width = 10;
e.Cell.Controls.Add(img);
}
```

	Calend	ler Pa	age			
<<	Octobe	er 20	021			<u>>></u>
Мо	Tu	We	Th	Fr	Sa	Su
<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	1	2	<u>3</u>
<u>4</u>	<u>5</u>	<u>6</u>	7	<u>8</u>	<u>9</u>	<u>10</u>
<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>
<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>
<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>		<u>30</u>	<u>31</u>
1	<u>2</u> DiwaliVacation	<u>3</u>	4	<u>5</u>	<u>6</u>	7
Bu	tton					
Bu	tton					
27 (October 2021					

b. Display vacation in a calendar control

```
WebPage code:
```

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="prac3b.aspx.cs"
Inherits="prac3b" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
        <title></title>
</head>
<body>
        <form id="form1" runat="server">
        <asp:Calendar ID="Calendar1" runat="server" BackColor="#FFFFCC"
BorderColor="#FFCC66" BorderWidth="1px" Caption="Calender Page"</pre>
```

```
DayNameFormat="Shortest" FirstDayOfWeek="Monday" Font-Names="Verdana" Font-
Size="8pt" ForeColor="#663399" Height="200px" NextMonthText=">>"
PrevMonthText="<&lt;" SelectedDate="2020-09-26" ShowGridLines="True"
Width="220px" onselectionchanged="Calendar1_SelectionChanged"
ondayrender="Calendar1 DayRender">
  <DayHeaderStyle BackColor="#FFCC66" Font-Bold="True" Height="1px" />
  <NextPrevStyle Font-Size="9pt" ForeColor="#FFFFCC" />
  <OtherMonthDayStyle ForeColor="#CC9966" />
  <SelectedDayStyle BackColor="#CCCCFF" Font-Bold="True" />
  <SelectorStyle BackColor="#FFCC66" />
  <TitleStyle BackColor="#990000" Font-Bold="True" Font-Size="9pt" ForeColor="#FFFFCC"
/>
   <TodayDayStyle BackColor="#FFCC66" ForeColor="White" />
</asp:Calendar><br />
  <asp:Button ID="Button1" runat="server" Text="Button" onclick="Button1_Click"/>
    <br />
    <br />
  <asp:Button ID="Button2" runat="server" Text="Button" onclick="Button2_Click"/>
  <br />
  <br />
  <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
</body>
</html>
Code behind file:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class prac3b: System.Web.UI.Page
{
  protected void Page Load(object sender, EventArgs e)
  }
  protected void Button1_Click(object sender, EventArgs e)
    Label1.Text = Calendar1.SelectedDate.ToShortDateString();
  }
```

```
protected void Button2_Click(object sender, EventArgs e)
    Label1.Text = "";
    foreach (DateTime dt in Calendar1.SelectedDates)
      Label1.Text += dt.ToLongDateString() + "<br />";
    }
 }
  protected void Calendar1_SelectionChanged(object sender, EventArgs e)
    Label1.Text = Calendar1.SelectedDate.ToShortDateString();
  }
  protected void Calendar1 DayRender(object sender, DayRenderEventArgs e)
    // Check for May 5 in any year, and format it.
    if (e.Day.Date.Day == 10 && e.Day.Date.Month == 11)
      e.Cell.BackColor = System.Drawing.Color.LimeGreen;
      // Add some static text to the cell.
      Label lbl = new Label();
      lbl.Text = "<br />My Birthday!";
      e.Cell.Controls.Add(lbl);
      Image img = new Image();
      img.Height = 10;
      img.Width = 10;
      e.Cell.Controls.Add(img);
    }
    if (e.Day.Date.Day == 2 && e.Day.Date.Month == 11)
      Calendar1.SelectedDate = new DateTime(2020, 2, 11);
      Calendar1.SelectedDates.SelectRange(Calendar1.SelectedDate,
Calendar1.SelectedDate.AddDays(10));
      Label lbl1 = new Label();
      lbl1.Text = "<br>DiwaliVacation";
      e.Cell.Controls.Add(lbl1);
    }
 }
```

}

	Calen	der Page				
<<	Novem	ber 202	1		2	>>
Мо	Tu	We	Th	Fr	Sa	Su
<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>		<u>30</u>	<u>31</u>
1	<u>2</u> DiwaliVacation	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
<u>8</u>	<u>9</u>	<u>10</u> My Birthday! □	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>
<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>
<u>29</u>	<u>30</u>	<u>1</u>	2	<u>3</u>	4	<u>5</u>
Bu	itton					
Bu	itton					
02 1	November 202	1				

Practical 4 Working with Form Controls

4a. Create a Registration form to demonstrate use of various Validation controls WebPage:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Prac4a.aspx.cs" Inherits="Prac4a" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
 <form id="form1" runat="server">
    <div>
      <h1>Register here.</h1>
       <asp:Label ID="firstName" runat="server" Text="First Name:"></asp:Label>
         
    <asp:TextBox ID="tbFirstName" runat="server"></asp:TextBox>
      <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
ControlToValidate="tbFirstName" ErrorMessage="Please enter your first name."
ForeColor="Red"></asp:RequiredFieldValidator>
      <br />
      <br />
      <asp:Label ID="lastName" runat="server" Text="Last Name:"></asp:Label>
         
    <asp:TextBox ID="tbLastName" runat="server"></asp:TextBox>
      <br />
      <br />
      <asp:Label ID="labelEmail" runat="server" Text="Email:"></asp:Label>
         
    <asp:TextBox ID="tbEmail" runat="server" TextMode="Email"></asp:TextBox>
      <asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"
ControlToValidate="tbEmail" ErrorMessage="Email is required."
ForeColor="Red"></asp:RequiredFieldValidator>
      <br />
      <br />
      <asp:Label ID="labelPassword" runat="server" Text="Password:"></asp:Label>
         
    <asp:TextBox ID="tbPassword" runat="server" TextMode="Password"></asp:TextBox>
      <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
ControlToValidate="tbPassword" ErrorMessage="Password is required."
ForeColor="Red"></asp:RequiredFieldValidator>
      <br />
      <br />
```

```
<asp:Label ID="labelConfirmPassword" runat="server" Text="Confirm
password:"></asp:Label>
         
    <asp:TextBox ID="tbConfirmPassword" runat="server" TextMode="Password"></asp:TextBox>
      <asp:CompareValidator ID="CompareValidator1" runat="server"
ControlToCompare="tbPassword" ControlToValidate="tbConfirmPassword"
ErrorMessage="Password do not match." ForeColor="Red"></asp:CompareValidator>
      <asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
ControlToValidate="tbConfirmPassword" ErrorMessage="Please confirm your password"
ForeColor="Red"></asp:RequiredFieldValidator>
      <br />
      <br />
      <asp:Label ID="labelPhoneNumber" runat="server" Text="Phone Number:"></asp:Label>
         
    <asp:TextBox ID="tbPhoneNumber" runat="server" TextMode="Phone"></asp:TextBox>
      <asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server"
ControlToValidate="tbPhoneNumber" ErrorMessage="Phone number is rquired."
ForeColor="#FF3300"></asp:RequiredFieldValidator>
      <br />
      <br />
      <asp:Button ID="btnSubmit" runat="server" Text="Submit" />
    </div>
 </form>
</body>
</html>
```

Register here.
First Name: Please enter your first name.
Last Name: sawant
Email: Email is required.
Password: ••••
Confirm password: Password do not match.
Phone Number: Phone number is rquired.
Submit

4b. Create Web Form to demonstrate use of Adrotator Control.

<!DOCTYPE html>

```
XMI File:
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
 <Ad>
  <!-- First ad here. -->
  <ImageUrl>todo_checklist.png
  <NavigateUrl>https://google.com</NavigateUrl>
  <AlternateText>
  Order flowers, roses, gifts and more
  </AlternateText>
  <Impressions>20</impressions>
  <Keyword>f</Keyword>
 </Ad>
 <Ad>
  <!-- Second ad here. -->
  <ImageUrl>warrior.jpg</ImageUrl>
  <NavigateUrl>ggg</NavigateUrl>
  <AlternateText>
  Order flowers, roses, gifts and more
  </AlternateText>
  <Impressions>20</Impressions>
  <keyword>f</keyword>
 </Ad>
 <Ad>
  <ImageUrl>road.jpg</ImageUrl>
  <NavigateUrl>gy</NavigateUrl>
  <AlternateText>Order roses and flowers</AlternateText>
  <Impressions>20</Impressions>
  <Keyword>f</Keyword>
 </Ad>
 <Ad>
  <ImageUrl>warrior.jpg</ImageUrl>
  <NavigateUrl>iii</NavigateUrl>
  <AlternateText>Send flowers to Russia</AlternateText>
  <Impressions>20</impressions>
  <Keyword>f</Keyword>
 </Ad>
</Advertisements>
WebPage:
<@ Page Language="C#" AutoEventWireup="true" CodeFile="Prac4b.aspx.cs" Inherits="Prac4b"
%>
```

4c. Create Web Form to demonstrate use User Controls.

UserControl File

```
WebPage:
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="WebUserControl.ascx.cs"</p>
Inherits="WebUserControl" %>
<h3>Web User Control Example</h3>
<h4>First Name <asp:TextBox ID="fname" runat="server"></asp:TextBox>
</h4>
<h4>Last Name <asp:TextBox ID="Iname" runat="server"></asp:TextBox>
</h4>
<asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
<br />
<asp:Button ID="Button1" runat="server" Text="Save" onclick="Button1 Click" />
Code Behind File:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class WebUserControl: System.Web.UI.UserControl
{
  protected void Page Load(object sender, EventArgs e)
  protected void Button1 Click(object sender, EventArgs e)
```

```
{
    Label1.Text = "Your Name=" + fname.Text + " " + Iname.Text;
}
Using User control file
WebPage:
<@ Page Language="C#" AutoEventWireup="true" CodeFile="Prac4c.aspx.cs" Inherits="Prac4c" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<%@ Register Src="~/WebUserControl.ascx" TagName="Info" TagPrefix="in" %>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
  <h1>Implementation of Web user Control</h1>
  <in:Info ID="infocontrol" runat="server"></in:Info>
  </div>
  </form>
</body>
</html>
```

Implementation of Web user Control Web User Control Example First Name sudeep Last Name sawant Your Name=sudeep sawant Save

Practical 5

Working with Navigation, Beautification and Master page.

5a. Create Web Form to demonstrate use of Website Navigation controls and Site Map.

```
WebPage:
```

```
<@ Page Language="C#" AutoEventWireup="true" CodeFile="Prac5a.aspx.cs" Inherits="Prac5a" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
       <h1>TreeView Navigation Control.</h1>
      <asp:TreeView ID="TreeView1" runat="server" DataSourceID="SiteMapDataSource1">
      </asp:TreeView>
      <asp:SiteMapDataSource ID="SiteMapDataSource1" runat="server" />
      <h1>Menu Navigation Control.</h1>
       <asp:Menu ID="Menu1" runat="server" DataSourceID="SiteMapDataSource1">
       </asp:Menu>
       <br />
      <h1>SiteMapPath Navigation Control.</h1>
            <asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="~/Prac5a2.aspx">Click
here to go to First Page</asp:HyperLink>&nbsp;
      <asp:HyperLink ID="HyperLink2" runat="server" NavigateUrl="~/Prac5a.aspx">Click here to
go to Second Page</asp:HyperLink>
      <br />
      <br />
      <asp:Label ID="Label2" runat="server" Text="Click any link below to go to desired
page....."></asp:Label>
    </div>
  </form>
</body>
</html>
Output:
```

TreeView Navigation Control.

```
■ Courses
■ Self_Finance
BScIT
BMM
■ General
Science
Arts
```

Menu Navigation Control.

Courses ▶

Practical 6 Working with Database

6b. Create a web application to display records by using database.

SqlCommand cmd = new SqlCommand();

cmd.CommandText = "select *from products";

default constructor

```
WebPage: DatabaseDemo.aspx
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="DatabaseDemo.aspx.cs"</p>
Inherits="DatabaseDemo" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:GridView ID="GridView1" runat="server">
    </asp:GridView>
  </div>
  </form>
</body>
</html>
Code behind file:
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;
public partial class DatabaseDemo : System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
    string s = "Data Source=DESKTOPB8D4US6;InitialCatalog=mobileshop;IntegratedSecurity=True";
    SqlConnection con = new SqlConnection();
    con.ConnectionString = s;
```

```
cmd.Connection = con;
con.Close();
}
```

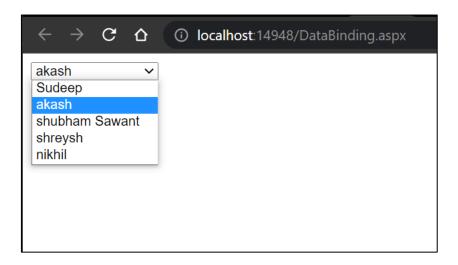
mama
name
Apple
Samsung
Mi
OnePlus
Realme
Vivo
Oppo
Poco
Google
Sony
Motorolla
Lg

Practical 7 Working with database

7a. Create a web application to display Databinding using dropdownlist control. WebPage:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="DataBinding.aspx.cs"</p>
Inherits="DataBinding" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:DropDownList ID="DropDownList1" runat="server">
    </asp:DropDownList>
  </div>
  </form>
</body>
</html>
Code behind file:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
public partial class DataBinding: System.Web.UI.Page
{
  protected void Page_Load(object sender, EventArgs e)
    string s = "Data Source=DESKTOPB8D4US6;InitialCatalog=mobileshop;IntegratedSecurity=True";
    SqlConnection con = new SqlConnection(connection);
    SqlCommand cmd = new SqlCommand();
    cmd.CommandText = "select name, email from customer";
    cmd.Connection = con;
    con.Open();
    DropDownList1.DataSource = cmd.ExecuteReader();
    DropDownList1.DataTextField = "name";
    DropDownList1.DataValueField = "email";
```

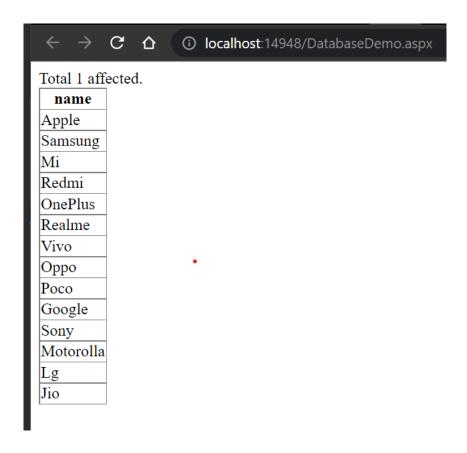
```
DropDownList1.DataBind();
  con.Close();
}
```



```
7c. Create a web application for inserting and deleting record from a database. (Using Execute-Non-Query).
```

```
WebPage:
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="DatabaseDemo.aspx.cs"</p>
Inherits="DatabaseDemo" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    <asp:GridView ID="GridView1" runat="server">
    </asp:GridView>
  </div>
  </form>
</body>
</html>
Code behind file:
   1. Inserting data
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
public partial class DatabaseDemo: System.Web.UI.Page
  protected void Page Load(object sender, EventArgs e)
    string s = "Data Source=DESKTOPB8D4US6;InitialCatalog=mobileshop;IntegratedSecurity=True";
        SqlConnection con = new SqlConnection(connection);
    //************* inserting data **********
    SqlCommand cmd = new SqlCommand();
    cmd.CommandText = "insert into brands(name) values('Jio')";
    cmd.Connection = con;
    con.Open();
    int rowsAffected = cmd.ExecuteNonQuery();
```

```
Response.Write("Total "+rowsAffected+" affected.");
cmd.CommandText = "select *from brands";
GridView1.DataSource = cmd.ExecuteReader();
GridView1.DataBind();
con.Close();
con.Close();
}
Result:
```



2. Deleting Row

Code behind File:

```
GridView1.DataSource = cmd.ExecuteReader();
   GridView1.DataBind();
   con.Close();
   con.Close();
}
```

lemoved
name
Apple
Samsung
Лi
OnePlus
Realme
/ivo
Орро
Poco
Google
Sony
Motorolla
io

Practical 10

Working with AJAX and XML

10c. Create a web application to demonstrate use of various Ajax controls.

```
WebPage code:
```

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="UpdatePanel_Trigger_Eg.aspx.cs"</p>
Inherits="UpdatePanel_Trigger_Eg" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:ScriptManager ID="ScriptManager1" runat="server" />
    <div>
      <asp:UpdatePanel ID="UpdatePanel1" runat="server" UpdateMode="Conditional">
        <ContentTemplate>
          <strong>Update Panel-1</strong>
          <asp:Label ID="lbl1" runat="server" ForeColor="green" /><br />
          <asp:Button ID="btnUpdate1" runat="server" Text="Update Both Panels"
            OnClick="btnUpdate1_Click"/>
          <asp:Button ID="btnUpdate2" runat="server" Text="Update This Panel"
            OnClick="btnUpdate2 Click"/>
        </ContentTemplate>
      </asp:UpdatePanel>
      <asp:UpdatePanel ID="UpdatePanel2" runat="server" UpdateMode="Conditional">
        <ContentTemplate>
          <strong>Update Panel-2</strong>
          <asp:Label ID="lbl2" runat="server" ForeColor="red" />
        </ContentTemplate>
        <Triggers>
          <asp:AsyncPostBackTrigger ControlID="btnUpdate1" EventName="Click" />
          <%-- <asp:PostBackTrigger ControlID="btnUpdate2"/>--%>
        </Triggers>
      </asp:UpdatePanel>
    </div>
  </form>
</body>
</html>
```

Code behind file:

using System;

```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class UpdatePanel_Trigger_Eg : System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
  {
  }
  protected void btnUpdate1_Click(object sender, EventArgs e)
    lbl1.Text = DateTime.Now.ToLongTimeString();
    lbl2.Text = DateTime.Now.ToLongTimeString();
  }
  protected void btnUpdate2_Click(object sender, EventArgs e)
    lbl1.Text = DateTime.Now.ToLongTimeString();
    lbl2.Text = DateTime.Now.ToLongTimeString();
  }
}
```

