NURTURING POTENTIAL

SAKET GYANPEETH'S

SAKET COLLEGE OF ARTS, SCIENCE AND COMMERCE

(Permanently Affiliated to University of Mumbai)

NAAC Accredited B Grade

Saket Vidyanagari Marg, Chinchpada Road, Katemanivali, Kalyan (East) – 421306, Dist. Thane (MAH)

CERTIFICATE

This is to certify that

GUDDU MUKESH SINGH

of

BSc Information Technology

Class has satisfactory carried out the required practical in the subject.

ADVANCED WEB PROGRAMMING

For the Academic year 2023 – 2024

Practical In-Charge

Head of Department

College Seal

External Examiner

NURTURING POTENTIAL

SAKET GYANPEETH'S

SAKET COLLEGE OF ARTS, SCIENCE AND COMMERCE KALYAN

(EAST) ACADEMIC YEAR [2023 – 2024] BSc. Information Technology

SEMESTER – V

ADVANCED WEB PROGRAMMING

SUBMITTED BY

GUDDU MUKESH SINGH

AS PRESCRIPED BY

UNIVERSITY OF MUMBAI

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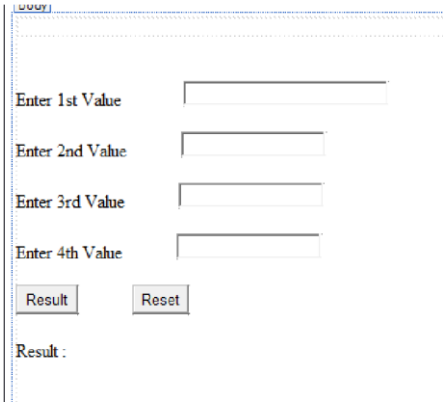
PRACTICAL 1

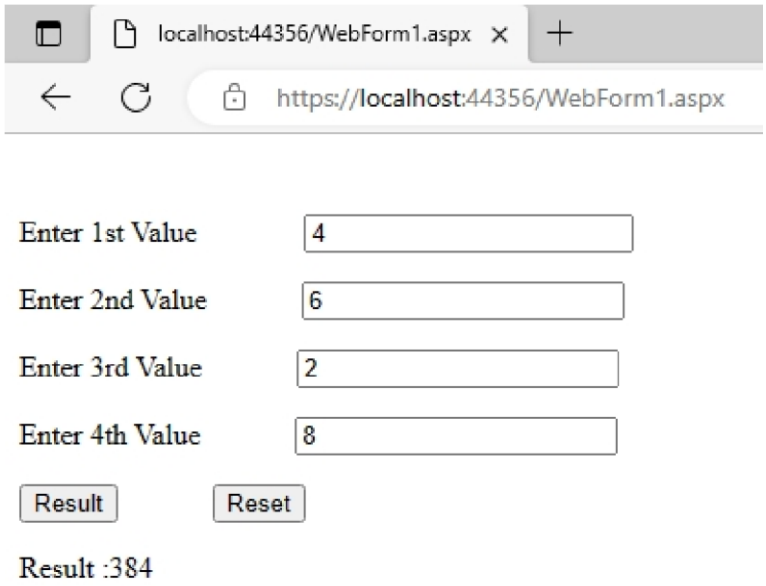
Practical 1(A) : Creating an application that obtains four int values from the user and display the product.



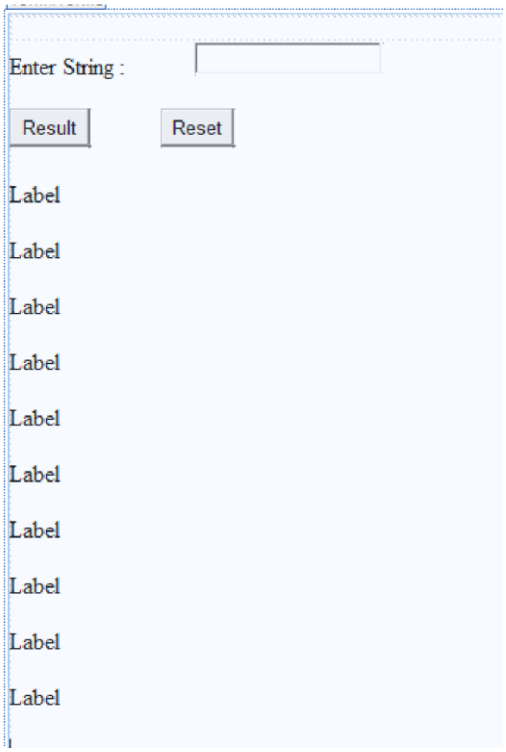

```
using System; using
System.Collections.Generic; using
System.Linq; using System.Web;
using System.Web.UI; using
System.Web.UI.WebControls;

namespace Sai_Pract1_A
{   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {
      }
      protected void Button1_Click(object sender, EventArgs e)

{          int r;
         r = Convert.ToInt32(TextBox1.Text) * Convert.ToInt32(TextBox2.Text) *
Convert.ToInt32(TextBox3.Text) * Convert.ToInt32(TextBox4.Text); Label5.Text = "Result
:" + r.ToString();
      }
      protected void Button2_Click(object sender, EventArgs e)
      {
```

```
        TextBox1.Text = "";
        TextBox2.Text = "";
        TextBox3.Text = "";
        TextBox4.Text = "";
        Label5.Text = "";
    }
}
}
```

Output :-



Practical 1(B) : Creating an application to demonstrate string operation.

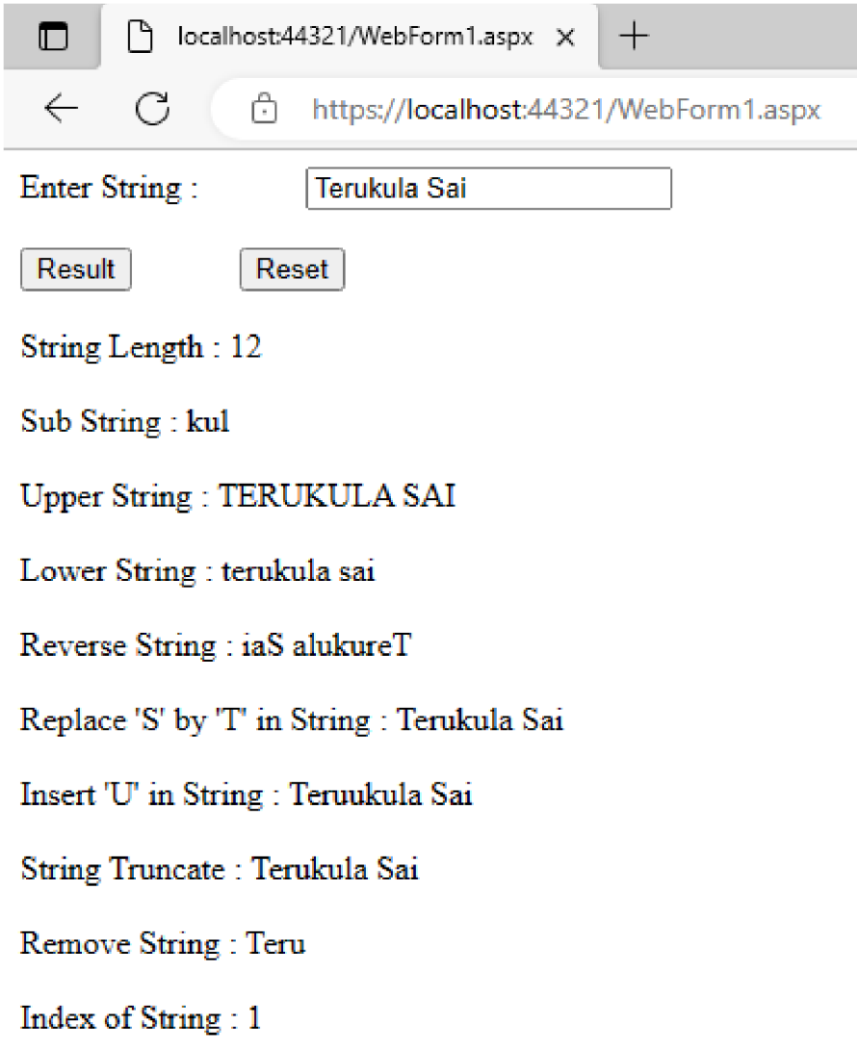



```
using System; using
System.Collections.Generic; using
System.Linq; using System.Web;
using System.Web.UI; using
System.Web.UI.WebControls;

namespace Sai_Pract2
{   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {
      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         string s = TextBox1.Text;

         Label2.Text = "String Length : " + s.Length;
```

```
        Label3.Text = "Sub String : " + s.Substring(4, 3);
        Label4.Text = "Upper String : " + s.ToUpper();
Label5.Text = "Lower String : " + s.ToLower();

        string rev = "";          for(int i =
s.Length - 1; i >= 0; i--)
        {             rev =
rev + s[i];          }

        Label6.Text = "Reverse String : " + rev.ToString();
        Label7.Text = "Replace 'S' by 'T' in String : " + s.Replace('s', 't');
        Label8.Text = "Insert 'U' in String : " + s.Insert(3, "u");
        Label9.Text = "String Truncate : " + s.Trim();
        Label10.Text = "Remove String : " + s.Remove(4);
        Label11.Text = "Index of String : " + s.IndexOf('e');

    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        Label2.Text = "";
        Label3.Text = "";
        Label4.Text = "";
        Label5.Text = "";
        Label6.Text = "";
        Label7.Text = "";
        Label8.Text = "";
        Label9.Text = "";
        Label10.Text = "";
        Label11.Text = "";
        TextBox1.Text = "";
    }
}
```

}

Output :-

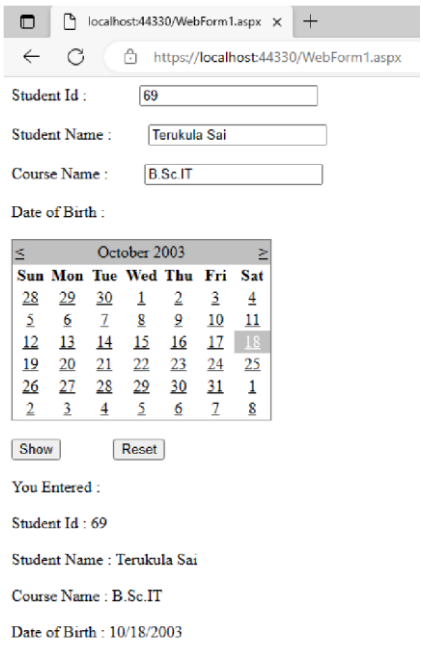


Practical 1(C) : Create an application that receives the (student ID, Student Name, Course Name, Date of Birth) information from a set of students. The application should also display the information of all the students once the data entered.


```
using System; using
System.Collections.Generic; using
System.Linq; using System.Web;
using System.Web.UI; using
System.Web.UI.WebControls;
namespace Sai_Pract3

{   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         Label6.Text = "Student Id : " + TextBox1.Text;
         Label7.Text = "Student Name : " + TextBox2.Text;
         Label8.Text = "Course Name : " + TextBox3.Text;
      Label9.Text = "Date of Birth : " + Calendar1.SelectedDate.ToShortDateString();
```

```
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        Label1.Text = "";
        Label2.Text = "";
        Label3.Text = "";
        Label4.Text = "";
        TextBox1.Text = "";
        TextBox2.Text = "";
        TextBox3.Text = "";
        Calendar1.SelectedDates.Clear();
    }
  }
}
```

Output :-



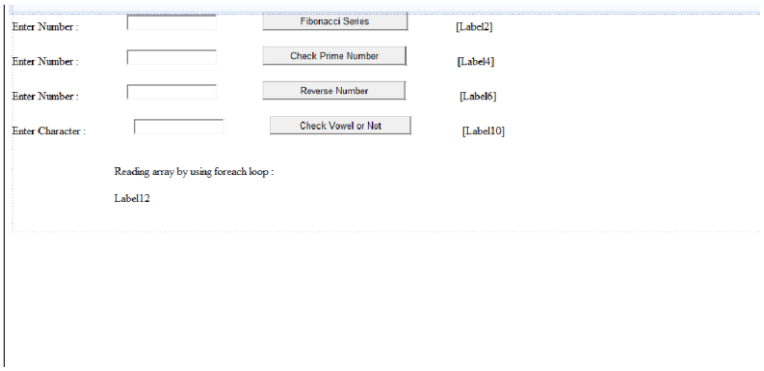
Practical 1(D) : Create an application to demonstrate following operations: I. Generate Fibonacci series.

II. Test for prime numbers.

III. Test for vowels.

IV. Use of foreach loop with arrays.

V. Reverse a number and find the sum of digits of a number.



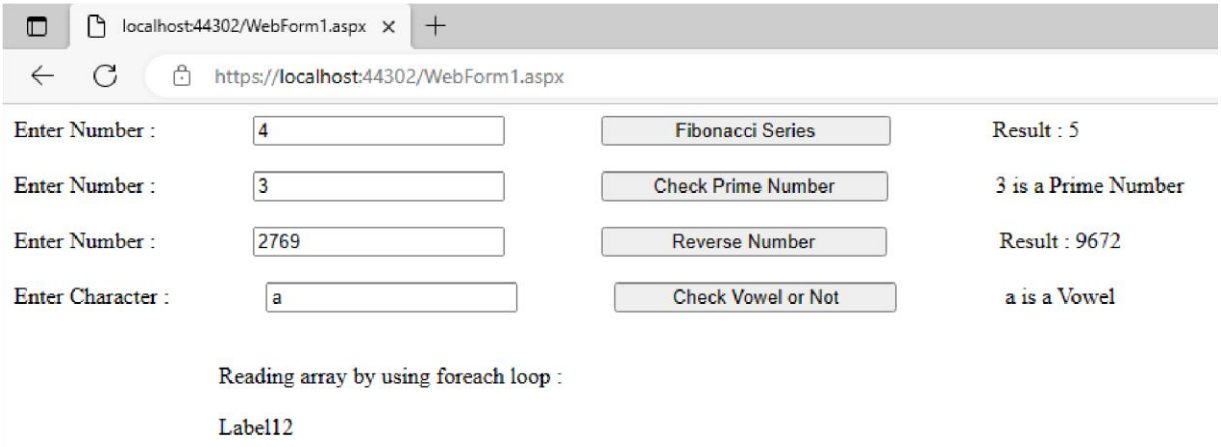

```
using System; using
System.Collections.Generic; using
System.Linq; using System.Web;
using System.Web.UI; using
System.Web.UI.WebControls;

namespace Sai_Pract4_Operations
{   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

     protected void Fibonacci_Button_Click(object sender, EventArgs e)
      {   int a, b, c;

    a = 0;
    b = 1;

        Label2.Text = a.ToString() + b.ToString();

        int n = Convert.ToInt32(TextBox1.Text);
        for(int i =1; i <= n; i++)
```

```
        {               c
= a + b;
            Label2.Text = "Result : " + c.ToString();
a = b;              b = c;          }


    }

    protected void Prime_Button_Click(object sender, EventArgs e)
    {
        int num = Convert.ToInt32(TextBox2.Text);

        int temp= 0;

        for(int i = 1; i <= num; i++)
        {               if(num %
i == 0)

{                   temp++
;               }
        }           if
(temp == 2)
        {
            Label4.Text = num + " is a Prime Number";
        }
else
        {
            Label4.Text = num + " is not a Prime Number";
        }


    }
    protected void Reverse_Button_Click(object sender, EventArgs e)
    {
```

```
        long num = Convert.ToInt64(TextBox3.Text);

        long a, sum = 0;
while(num > 0)
        {
           a = num % 10;
sum = a + sum * 10;
num = num / 10;
        }
        Label6.Text = "Result : " + sum.ToString();
      }

      protected void CheckVowel_Button_Click(object sender, EventArgs e)
      {
        char inpchar = Convert.ToChar(TextBox5.Text);

        switch (inpchar)

{            case
'a':
             Label10.Text = "a is a Vowel";
break;

           case 'e':
             Label10.Text = "e is a Vowel";
break;

           case 'i':
             Label10.Text = "i is a Vowel";
break;
           case 'o':
```

```
                Label10.Text = "o is a Vowel";
break;

            case 'u':
                Label10.Text = "u is a Vowel";
break;

            default:
                Label10.Text = inpchar + " is not a Vowel";
break;

        }
    }
  }
}
```

Output :-



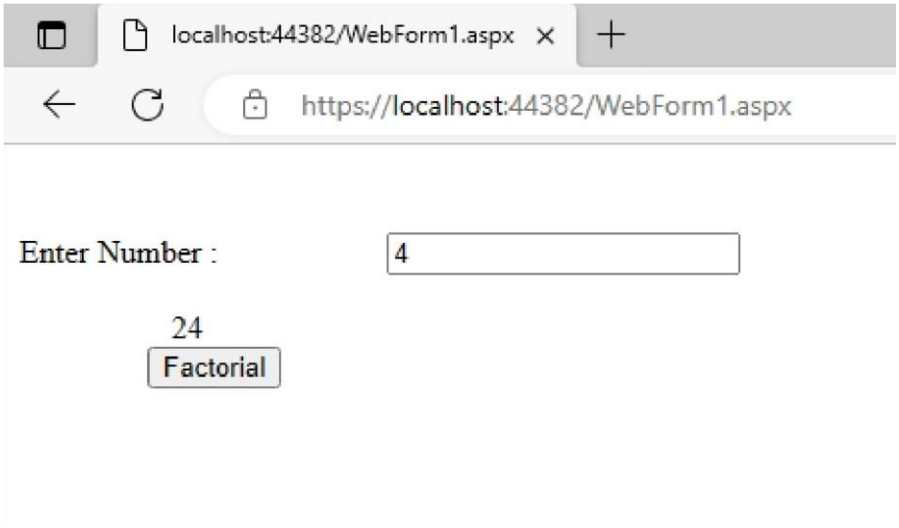
PRACTICAL 2

Practical 2(A) : Finding Factorial Value

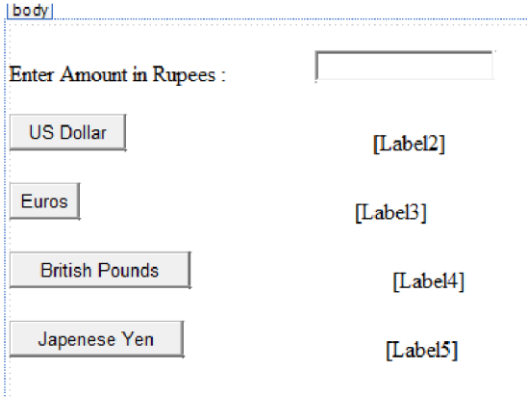
```
using System; using
System.Collections.Generic; using
System.Web; using System.Web.UI;
using System.Web.UI.WebControls;
```

```
public class Fact
{
   public int num, fact;

   public Fact()
   {       fact
= 1;
   }

   public void cal()
   {

      for(int i = 1; i <= num; i++)
      {   fact = fact * i;
      }
   }
}

namespace Sai_Pract_2_a
{   public partial class WebForm1 : System.Web.UI.Page
{
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button2_Click(object sender, EventArgs e)
      {
         Fact factnum = new Fact();

         factnum.num = int.Parse(TextBox1.Text);
factnum.cal();
```

```
            Label2.Text = factnum.fact.ToString();
        }
    }
}
```



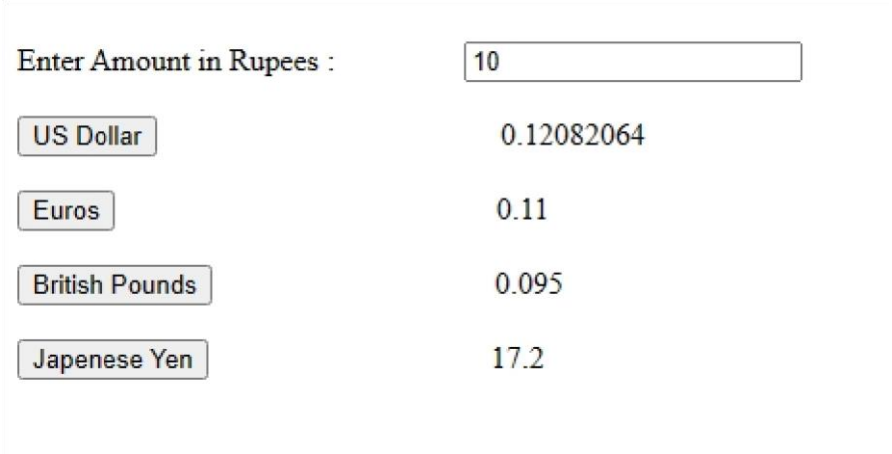
Practical 2(B) : Money Conversion



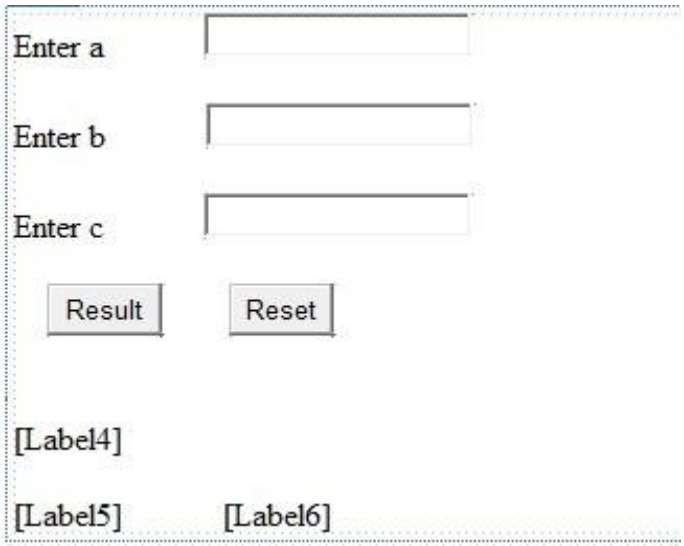

```
using System; using
System.Collections.Generic; using
System.Linq; using System.Web;
using System.Web.UI; using
System.Web.UI.WebControls;

public class curConv {
    public double Dollar(Double r)
    {       r = r *
0.012082064;        return
r;
    }
```

```
   public double Euros(Double r)
   {       r = r *
0.011;         return
r;
   }

   public double Pounds(Double r)
   {
      r = r * 0.0095;
return r;
   }

   public double Yen(Double r)
   {       r = r *
1.72;    return r;
   }
}
namespace Sai_Pract_2_a_Money_Conversion
{   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         curConv s = new curConv();    double r =
Convert.ToDouble(TextBox1.Text);   double rate = s.Dollar(r);
Label2.Text = rate.ToString();
      }
```

```
    protected void Button2_Click(object sender, EventArgs e)
    {
      curConv s = new curConv();   double r =
Convert.ToDouble(TextBox1.Text);   double rate = s.Yen(r);
Label3.Text = rate.ToString();
    }

    protected void Button3_Click(object sender, EventArgs e)
    {
      curConv s = new curConv();   double r =
Convert.ToDouble(TextBox1.Text);   double rate = s.Pounds(r);
Label4.Text = rate.ToString();
    }

    protected void Button4_Click(object sender, EventArgs e)
    {
      curConv s = new curConv();   double r =
Convert.ToDouble(TextBox1.Text);   double rate = s.Yen(r);
Label5.Text = rate.ToString();
    }
  }
}
```



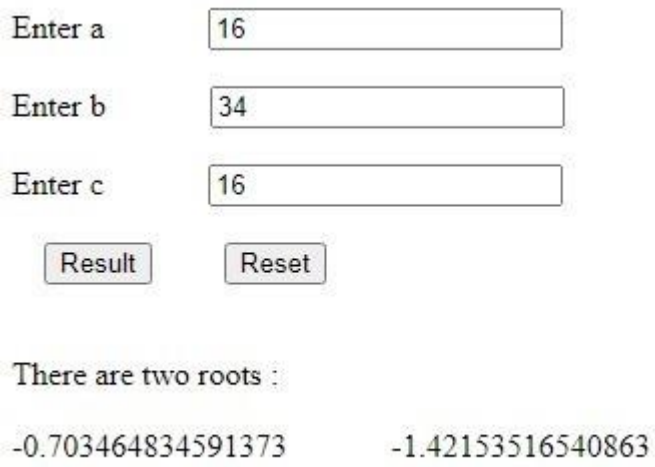
Practical 2(C) : Quadratic Equation Calculation




```
using System; using
System.Collections.Generic; using
System.Linq; using System.Web;
using System.Web.UI; using
System.Web.UI.WebControls;

namespace Sai_Pract2Aiii__Quadratic_Equation
{   public partial class WebForm1 : System.Web.UI.Page
   {

      public void demo()
      {           double a,
b, c;

     a = Convert.ToInt64(TextBox1.Text);
     b = Convert.ToInt64(TextBox2.Text);       c =
       Convert.ToInt64(TextBox3.Text);         double solu = (b * b) - (4 *
       a * c);

          double x, result1, result2;
```

```
        if(solu > 0)
        {
           x = Math.Sqrt(solu);

           result1 = (-b + x) / (2 * a);
result2 = (-b - x) / (2 * a);

           Label4.Text = "There are two roots : ";
           Label5.Text = result1.ToString();
           Label6.Text = result2.ToString();
        }          else
if(solu == 0)
        {
           x = Math.Sqrt(solu);

           result1 = (-b + x) / (2 * a);

           Label4.Text = "There is only one root : ";
           Label5.Text = result1.ToString();
        }
else
        {
           Label4.Text = "There is no root.";
        }
    }

    protected void Page_Load(object sender, EventArgs e)
    {
    }

    protected void Button1_Click(object sender, EventArgs e)
```

```
{          demo()
; }

      protected void Button2_Click(object sender, EventArgs e)
      {
         TextBox1.Text = "";
         TextBox2.Text = "";
         TextBox3.Text = "";
         Label4.Text = "";
         Label5.Text = "";
         Label6.Text = "";
      }
   }
}
```



PRACTICAL 3

Practical 3(A) : Create a Web Application to demonstrate use of GridView control template

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="TerukulaSaiDatabase.WebForm1" %>

<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
BackColor="White" BorderColor="#CCCCCC" BorderStyle="None" BorderWidth="1px"
CellPadding="4" DataSourceID="SqlDataSource1" ForeColor="Black"
GridLines="Horizontal">
      <Columns>
        <asp:BoundField DataField="Sr_No" HeaderText="Sr_No"
        SortExpression="Sr_No"
/>
        <asp:BoundField DataField="Brand" HeaderText="Brand" SortExpression="Brand"
/>
        <asp:BoundField DataField="First_Name" HeaderText="First_Name"
SortExpression="First_Name" />
        <asp:BoundField DataField="Last_Name" HeaderText="Last_Name"
SortExpression="Last_Name" />
       <asp:BoundField DataField="Price" HeaderText="Price" SortExpression="Price" />
        <asp:BoundField DataField="City" HeaderText="City" SortExpression="City" />
</Columns>
      <FooterStyle BackColor="#CCCC99" ForeColor="Black" />
      <HeaderStyle BackColor="#333333" Font-Bold="True" ForeColor="White" />
      <PagerStyle BackColor="White" ForeColor="Black" HorizontalAlign="Right" />
<SelectedRowStyle BackColor="#CC3333" Font-Bold="True" ForeColor="White" />
      <SortedAscendingCellStyle BackColor="#F7F7F7" />
      <SortedAscendingHeaderStyle BackColor="#4B4B4B" />
      <SortedDescendingCellStyle BackColor="#E5E5E5" />
      <SortedDescendingHeaderStyle BackColor="#242121" />
    </asp:GridView>
   <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:masterConnectionString %>" SelectCommand="SELECT * FROM
[laptop]"></asp:SqlDataSource>
```

```
    <div>
    </div>
  </form>
</body>
</html>
```

Output :

Sr_No	Brand	First_Name	Last_Name	Price	City
1	Asus	Sai	Terukula	70000	Kalyan
2	Dell	Tanooz	Terukula	65000	Thane
3	MSI	Kiran	Terukula	60000	Mumbra
4	HP	XYZ	ABC	75000	QWERTY
5	Infix	ZYX	CBA	55000	YTREWQ

Practical 3(B) : Create a Web Application to demonstrate the use of Paging in GridView control template.

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="TerukulaSaiDatabase.WebForm1" %>


<!DOCTYPE html>


<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:GridView ID="GridView1" runat="server" AllowPaging="True" AutoGenerateColumns="False" BackColor="White" BorderColor="#CCCCCC" BorderStyle="None" BorderWidth="1px" CellPadding="4" DataSourceID="SqlDataSource1" ForeColor="Black" GridLines="Horizontal" OnSelectedIndexChanged="GridView1_SelectedIndexChanged" PageSize="2">
      <Columns>
      <asp:BoundField DataField="Sr_No" HeaderText="Sr_No" SortExpression="Sr_No"
```

```
/>
        <asp:BoundField DataField="Brand" HeaderText="Brand" SortExpression="Brand"
/>
          <asp:BoundField DataField="First_Name" HeaderText="First_Name"
SortExpression="First_Name" />
          <asp:BoundField DataField="Last_Name" HeaderText="Last_Name"
SortExpression="Last_Name" />
        <asp:BoundField DataField="Price" HeaderText="Price" SortExpression="Price" />
          <asp:BoundField DataField="City" HeaderText="City" SortExpression="City" />
</Columns>
        <FooterStyle BackColor="#CCCC99" ForeColor="Black" />
        <HeaderStyle BackColor="#333333" Font-Bold="True" ForeColor="White" />
        <PagerStyle BackColor="White" ForeColor="Black" HorizontalAlign="Right" />
        <SelectedRowStyle BackColor="#CC3333" Font-Bold="True" ForeColor="White" />
<SortedAscendingCellStyle BackColor="#F7F7F7" />
        <SortedAscendingHeaderStyle BackColor="#4B4B4B" />
        <SortedDescendingCellStyle BackColor="#E5E5E5" />
        <SortedDescendingHeaderStyle BackColor="#242121" />
      </asp:GridView>
    <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:masterConnectionString %>" SelectCommand="SELECT * FROM
[laptop]"></asp:SqlDataSource>
      <div>
      </div>
   </form>
</body>
</html>
```

Output :

- Page 1

Sr_No	Brand	First_Name	Last_Name	Price	City
1	Asus	Sai	Terukula	70000	Kalyan
2	Dell	Tanooz	Terukula	65000	Thane

1 2 3

- Page 2

Sr_No	Brand	First_Name	Last_Name	Price	City
3	MSI	Kiran	Terukula	60000	Mumbra
4	HP	XYZ	ABC	75000	QWERTY

1 2 3

- Page 3

Sr_No	Brand	First_Name	Last_Name	Price	City
5	Infix	ZYX	CBA	55000	YTREWQ

1 2 3

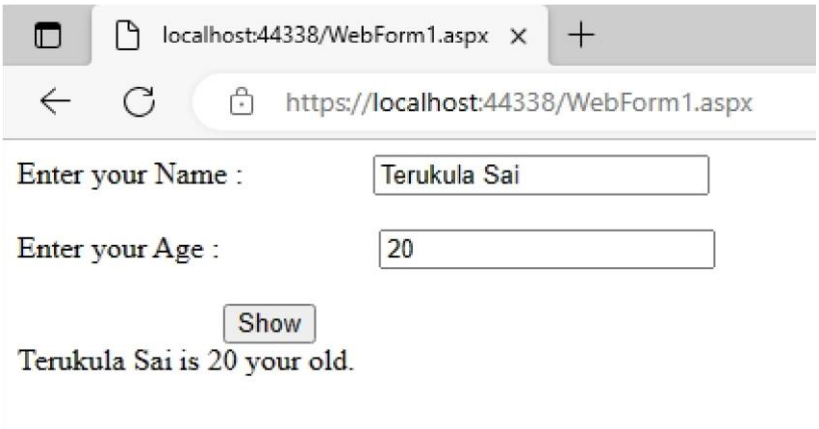
PRACTICAL 4

Practical 4(A) : Create an Application to Concatinate Name and Age from the user

```
using System; using
System.Collections.Generic; using
System.Linq; using System.Web;
using System.Web.UI; using
System.Web.UI.WebControls;

namespace Concatinating_Name_and_Age
{   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {          string str = "";          str +=
TextBox1.Text + " is ";        str +=
TextBox2.Text + " your old.";
```

```
Label3.Text = str;

        }
    }
}
```

Output :-



Practical 4(B) : Create a Web Form for showing the use of Reference

App.config :-

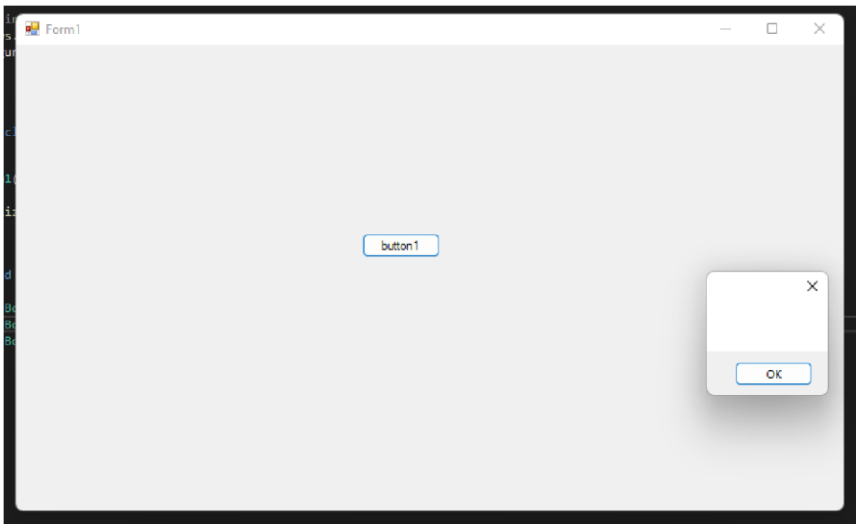
```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
    <appSettings>
        <add key="k1" value="v1"/>
        <add key="k2" value="v2"/>
        <add key="k3" value="v3"/>
    </appSettings>

</configuration>
```

Form1.cs :-

```
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.Configuration;

namespace Sai_Ref
{
   public partial class Form1 : Form
   {       public
Form1()
      {
         InitializeComponent();
      }

      private void button1_Click(object sender, EventArgs e)
      {
        MessageBox.Show(ConfigurationManager.AppSettings["k1"]);
        MessageBox.Show(ConfigurationManager.AppSettings["k2"]);
        MessageBox.Show(ConfigurationManager.AppSettings["k3"]);
      }
   }
}
```

Output :-


Form1
button1
OK