PRACTICAL NO. 1

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

CODE:

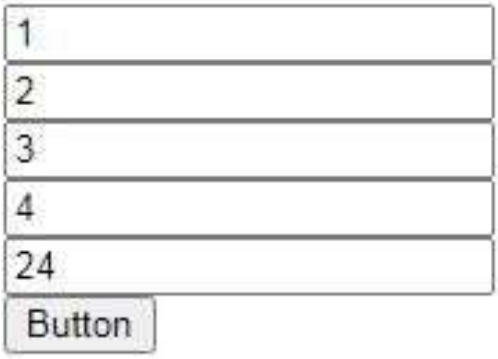
```
using System;
using System.Collections.Generic;using System.Linq;
using System.Web; using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication17
{
public partial class WebForm1 : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{

}

protected void TextBox1_TextChanged(object sender, EventArgs e)
{

}

protected void Button1_Click(object sender, EventArgs e)
{
int x, y, z, p;
x = Convert.ToInt16(TextBox1.Text);y = Convert.ToInt16(TextBox2.Text);z =
Convert.ToInt16(TextBox3.Text);p = Convert.ToInt16(TextBox4.Text);int q = x * y * z * p;
TextBox5.Text = Convert.ToString(q);
}
}
}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication17.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<div>
<asp:TextBox ID="TextBox1" runat="server"
OnTextChanged="TextBox1_TextChanged"></asp:TextBox>
</div>
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
<p>
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
</p>
<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
<p>
<asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
</p>
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
</form>
</body>
</html>
```

PRACTICAL NO. 1

OUTPUT:



PRACTICAL NO. 1

B. Create an application to demonstrate string operations.

CODE:

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

namespace WebApplication4
{
public partial class WebForm1 : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{

}

protected void TextBox1_TextChanged(object sender, EventArgs e)
{

}

protected void Button1_Click(object sender, EventArgs e)
{
String strl = TextBox1.Text; String[] word = strl.Split(' '); for(int i = 0;i<word.Length;i++)
{
TextBox2.Text = TextBox2.Text + word[i] + "\r\n";

}

}
}
}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication4.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<div>
<asp:TextBox ID="TextBox1" runat="server" OnTextChanged="TextBox1_TextChanged"></asp:TextBox>
```

PRACTICAL NO. 1

```
<br />
<asp:TextBox ID="TextBox2" runat="server" Height="67px" TextMode="MultiLine"
Width="182px"></asp:TextBox>
<br />
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
<br />
<asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
<br />
<asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
<br />
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
</div>
</form>
</body>
</html>
```

OUTPUT:

PRACTICAL NO. 1

C. Write an application that receives the following information from a set of student:(Student Id ,Student name, course name, DOB) the application should also display the information off all the students once the data is entered. Implement this using an array ofstructures.

CODE:

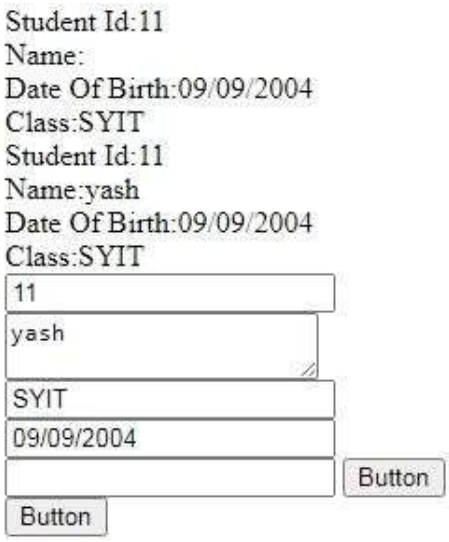
```
using System;
using System.Collections.Generic;using System.Linq;
using System.Web; using System.Web.UI;
using System.Web.UI.WebControls;struct Student
{
public string studid, name, cname;public string dob;

}
namespace WebApplication22
{
public partial class WebForm1 : System.Web.UI.Page
{
static Student[] s = new Student[5];static int i;
protected void Page_Load(object sender, EventArgs e)
{
}
protected void TextBox1_TextChanged(object sender, EventArgs e)
{
}

protected void Button1_Click(object sender, EventArgs e)
{
Response.Write("i=" + i); s[i].studid = TextBox1.Text;s[i].name = TextBox2.Text; s[i].cname =
TextBox3.Text;s[i].dob = TextBox4.Text; i++;
}

protected void Button2_Click(object sender, EventArgs e)
{
for (int y = 0; y < i; y++)
{
Response.Write("Student Id:"+s[y].studid + "<br>"); Response.Write("Name:"+s[y].name + "<br>");
Response.Write("Date Of Birth:"+s[y].dob + "<br>");Response.Write("Class:"+s[y].cname + "<br>")
}
}
}
}
```

PRACTICAL NO. 1

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs"Inherits="WebApplication22.WebForm1"
%>

<!DOCTYPE html>

<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"
      OnTextChanged="TextBox1_TextChanged"></asp:TextBox>
      <div>
         <asp:TextBox ID="TextBox2" runat="server" TextMode="MultiLine"></asp:TextBox>
      </div>
      <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
      <br />
      <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
      <br />
      <asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
      <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
      <br />
      <asp:Button ID="Button2" runat="server" OnClick="Button2_Click" Text="Button" />
   </form>
</body>
</html>
```

OUTPUT:



PRACTICAL NO. 1

D. Create an application to demonstrate the following operations:

(i) Generate Fibonacci series

CODE:

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

namespace WebApplication5
{
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 f1 = 0, f2 = 1, f3, n, co;
n = int.Parse(TextBox1.Text); co = 3;
Response.Write("Fibonaaci Series:"); Response.Write(f1 + "\t" + f2); while(co<=n)
{
f3 = f1 + f2; Response.Write("\t" + f3); f1 = f2;
f2 = f3; co++;

}
}
}
}
```

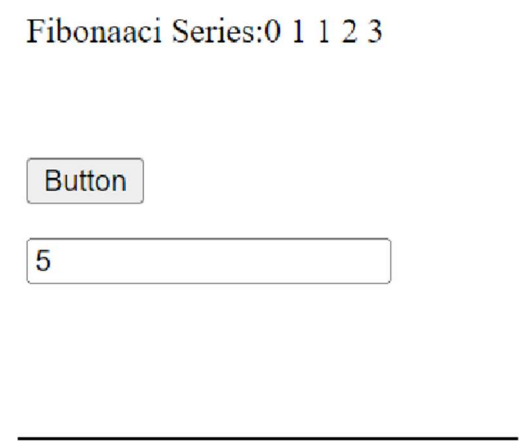
SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication5.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<p>
<br />
</p>
```

PRACTICAL NO. 1

```
<form id="form1" runat="server">
<p>
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
</p>
<p>
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
</p>
<div>
</div>
</form>
</body>
</html>
```

OUTPUT:



PRACTICAL NO. 1

(ii) Test For Prime Numbers

CODE:

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

namespace WebApplication5
{
   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 n, i, c;
         n =
         int.Parse(TextBox1.Text);
         for (c = 2; c <= n - 1; c++)
         {
            if ((n % c) ==
               0)break;
         }
         if (n == 1)
            Response.Write(n + "is neither prime or
         composite");else if (c < n - 1)
            Response.Write(n + "is not prime
         number");else
            Response.Write(n + "is prime number");

      }
   }
}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication5.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<p>
<br />
</p>
<form id="form1" runat="server">
<p>
```

PRACTICAL NO. 1

```
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
</p>
<p>
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
</p>
<div>
</div>
</form>
</body>
</html>
```

OUTPUT:

7is prime number

Button

7

4is not prime number

Button

4

PRACTICAL NO. 1

(iii) Test For vowels

CODE:

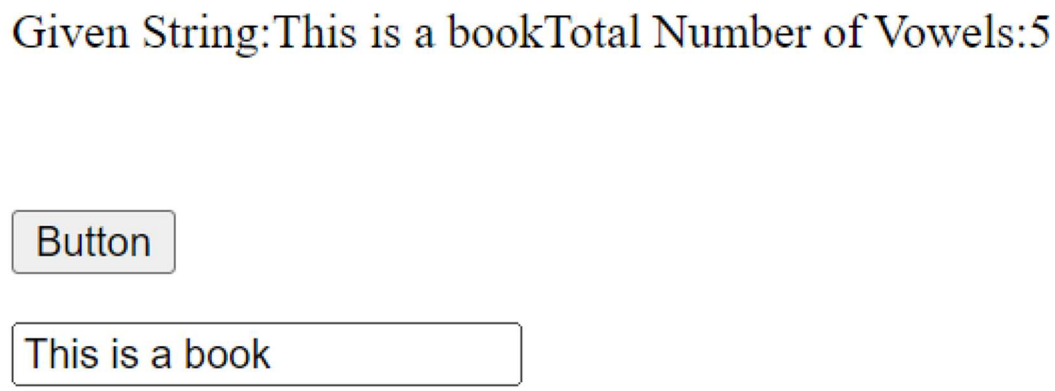
```
using System;
using
System.Collections.Generic;
using System.Linq;
using System.Web;
usingSystem.Web
UI;
using System.Web.UI.WebControls;

namespace WebApplication5
{
   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 ch;
         int count = 0;
         ch = TextBox1.Text;
         for (int i = 0; i < ch.Length; i++)
         {
            if ((ch.Substring(i, 1) == "a") || (ch.Substring(i, 1) == "e") || (ch.Substring(i, 1) == "i") ||
(ch.Substring(i, 1) =="o") || (ch.Substring(i, 1) == "u"))
            {
               count++;
            }
         }
         Response.Write("Given String:" + ch);
         Response.Write("Total Number of Vowels:" +
         count);

      }
   }
}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs"Inherits="WebApplication5.WebForm1"
%>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
</head
    >
<body>
   <p>
      <br />
```

```
    </p>
    <form id="form1" runat="server">
      <p>
        <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
      </p>
      <p>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      </p>
      <div>
      </div>
    </form>
  </body>
  </html>
```

OUTPUT:



PRACTICAL NO. 1

(iv) Use of foreach loop with arrays

CODE:

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

namespace WebApplication5
{
    public partial class WebForm2 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            int[] a = { 1, 2, 3, 4 };
            foreach (int x in a)
                Response.Write(x);
        }
    }
}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="WebApplication5.WebForm2" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<p>
<br />
</p>
<form id="form1" runat="server">
<p>
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button"
/>
</p>
<div>
</div>
</form>
</body>
</html>
```

PRACTICAL NO. 1

OUTPUT:

1234

Button

PRACTICAL NO. 1

(v) Reverse a number and find sum of digits of a number

CODE:

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

namespace WebApplication5
{
public partial class WebForm3 : System.Web.UI.Page
{
protected void Page_Load(object sender, EventArgs e)
{

}

protected void Button1_Click(object sender, EventArgs e)
{
int n, m, r = 0, d, sum = 0; n = int.Parse(TextBox1.Text); m = n;
while (n > 0)
{
d = n % 10;
r = r * 10 + d; sum= sum + d;
n = n / 10;
}
Response.Write("Reverse of" + m + "=" + r + "<br>"); Response.Write("Sum of digits:" + sum);
}
}
}
```

SOURCE CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm3.aspx.cs"
Inherits="WebApplication5.WebForm3" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<p>
<br />
</p>
<form id="form1" runat="server">
<p>
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button"
/>
</p>
<p>
</p>
<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
<div>
</div>
</form>
</body>
</html>
```

PRACTICAL NO. 1

OUTPUT: