BHAVAN'S COLLEGE AUTONOMOUS, ANDHERI-WEST
PRACTICAL JOURNAL

Practical Number: 01

Q.1) Find the factorial of a number obtained through user input.

Code:

Default.aspx.cs

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


namespace WebApplication1
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void txtnum_TextChanged(object sender, EventArgs e)
        {
            Int64 n, fact = 1;
            n = Int64.Parse(txtnum.Text);
            for (Int64 i = 1; i <= n; i++)
            {
                fact *= i;
            }
            lblResult.Text = "the factorial of" + n + "is" + fact.ToString();
        }
    }
}
```

Default.aspx

```aspx
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication1._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

  <asp:TextBox  runat="server">SYIT46</asp:TextBox><br /><br />
```

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```
<asp:Label ID="lbmnumber" runat="server" Text="Enter a Number:"></asp:Label><br /><br />
<asp:TextBox ID="txtnum" runat="server" OnTextChanged="txtnum_TextChanged"
TextMode="Number"></asp:TextBox><br /><br />
<asp:Button ID="btnClick" runat="server" Text="Generate" /><br /><br />
<asp:Label ID="lblResult" runat="server" Text=""></asp:Label>


</asp:Content>
```

Output:

```
SYIT17
```

```
Enter a Number:

5

Generate

The factorial of 5 is 120
```

Q.2) Write a console application that obtains three int values from the user and displays the product.

Code:

Default.aspx.cs

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


namespace WebApplication1
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
```

_____
Teacher's Signature

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```
    }
    protected void genProduct(object sender, EventArgs e)
    {
        Int32 num1, num2, num3, result;
        num1 = Int32.Parse(TextBox1.Text);
        num2 = Int32.Parse(TextBox2.Text);
        num3 = Int32.Parse(TextBox3.Text);


        result = num1 * num2 * num3;
        lblResult.Text = "The product of numbers is: " + result.ToString();

    }
}
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication1._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server">SYIT46</asp:TextBox><br /><br />
    <asp:Label ID="Label1" runat="server" Text="Enter a Number 1:"></asp:Label>
    <asp:TextBox ID="TextBox1" runat="server" TextMode="Number" Width="126px"></asp:TextBox><br /><br />
    <asp:Label ID="Label2" runat="server" Text="Enter a Number 2:"></asp:Label>
    <asp:TextBox ID="TextBox2" runat="server" TextMode="Number" Width="126px"></asp:TextBox><br /><br />
    <asp:Label ID="Label3" runat="server" Text="Enter a Number 3:"></asp:Label>
    <asp:TextBox ID="TextBox3" runat="server" TextMode="Number" Width="126px"></asp:TextBox><br /><br />
    <asp:Button ID="btnClick" runat="server" OnClick="genProduct" Text="Generate" /><br /><br />
    <asp:Label ID="lblResult" runat="server" Text=""></asp:Label><br /><br />


</asp:Content>
```

Output:

_____

Teacher's Signature

Practical Number: 01

SYIT17

Enter a Number 1: | 3 |
Enter a Number 2: | 4 |
Enter a Number 3: | 5 |

| Generate |

The product of numbers is: 60

Q.3) Write application to input two variables var1 and var2 and Boolean test to see if one or the other (but not both) is greater than 10?

Code:

Default.aspx.cs

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

namespace WebApplication1
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void checkNum(object sender, EventArgs e)
        {
            Int32 num1, num2;
            num1 = Int32.Parse(TextBox1.Text);
            num2 = Int32.Parse(TextBox2.Text);
```

Teacher's Signature

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```
        if(num1<10)
        {
            lblResult.Text = num1 + " is less than 10";
        }
        else if(num2<10)
        {
            lblResult.Text = num2 + " is less than 10";
        }
        else
        {
            lblResult.Text ="Process succeded";
        }
    }
  }
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication1._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server">SYIT46</asp:TextBox><br /><br />
    <asp:Label ID="Label1" runat="server" Text="Enter a Number 1:"></asp:Label>
    <asp:TextBox ID="TextBox1" runat="server" TextMode="Number" Width="126px"></asp:TextBox><br /><br />
    <asp:Label ID="Label2" runat="server" Text="Enter a Number 2:"></asp:Label>
    <asp:TextBox ID="TextBox2" runat="server" TextMode="Number" Width="126px"></asp:TextBox><br /><br />
  <asp:Button ID="btnClick" runat="server" OnClick="checkNum" Text="Check" /><br /><br />
    <asp:Label ID="lblResult" runat="server" Text=""></asp:Label><br /><br />
</asp:Content>
```

Output:

_____

Teacher's Signature

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SYIT17

Enter a Number 1: 11

Enter a Number 2: 3

Check

3 is less than 10

Q.4) Find the reverse of a number obtained through user input.

Code:

Default.aspx.cs

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

namespace WebApplication1
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void checkNum(object sender, EventArgs e)
        {
            Int32 num1, rev=0, holder;
            num1 = Int32.Parse(TextBox1.Text);
            holder = num1;
            while(num1>0)
            {
                Int32 x = num1 % 10;
                rev = (rev * 10) + x;
```

_____

Teacher's Signature

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```
            num1 /= 10;
        }
        lblResult.Text = "Reverse of number " + holder + " is " + rev;
    }
  }
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication1._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
   <asp:TextBox runat="server">SYIT46</asp:TextBox><br /><br />
   <asp:Label ID="Label1" runat="server" Text="Enter a Number 1:"></asp:Label>
   <asp:TextBox ID="TextBox1" runat="server" TextMode="Number" Width="126px"></asp:TextBox><br /><br />
   <asp:Button ID="btnClick" runat="server" OnClick="checkNum" Text="Generate" /><br /><br />
   <asp:Label ID="lblResult" runat="server" Text=""></asp:Label><br /><br />
</asp:Content>
```

Output:

SYIT17

Enter a Number 1: 2468

Generate

Reverse of number 2468 is 8642

Q.1) Create an application to show the following: Factorial, Prime, Vowel, Reverse and Sum, forEach loop.

Code:

Default.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
```

Class: <u>SYIT(NEP)</u>　　　**Sem: IV**　　　**Roll No.: SYIT46**　　　**Date : 23/11/2024**

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```csharp
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;


namespace WebApplication2
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            if(dropDownList.SelectedItem.Text.Equals("Fibonacci"))
            {
                int n = Convert.ToInt32(inputBox.Text.ToString());
                int a = 0, b = 1;
                resultLabel.Text = "The fibonacci series is: ";
                for(int i=0; i<n; i++)
                {
                    resultLabel.Text = resultLabel.Text + " " + a;
                    int c = a + b;
                    a = b;
                    b = c;
                }
            }
            else if (dropDownList.SelectedItem.Text.Equals("Prime"))
            {
                int n = Convert.ToInt32(inputBox.Text.ToString());
                bool isPrime = true;
                if(n < 2)
                {
                    resultLabel.Text = "Better input next time";
                }
                else if(n == 2)
```

_____

Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 23/11/2024**

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```
        {
            isPrime = true;
            resultLabel.Text = "The number " + n + " is Prime";


        }
        else
        {
            for(int i=3; i<=n/2; i++)
            {
                if(n % i == 0)
                {
                    isPrime = false;
                }
            }
            resultLabel.Text = (isPrime) ? "The number " + n + " is Prime" : "The number " + n + " is not Prime";
        }
    }
    else if(dropDownList.SelectedItem.Text.Equals("Vowels"))
    {
        char c = Convert.ToChar(inputBox.Text.ToString());
        bool isVowel = "aeiouAEIOU".IndexOf(c) >= 0;
        resultLabel.Text = (isVowel) ? "The character " + c + " is a vowel" : "The character " + c + " is a consonant";
    }
    else if(dropDownList.SelectedItem.Text.Equals("Reverse & Sum"))
    {
        int n = Convert.ToInt32(inputBox.Text.ToString());
        int sum = 0, rev = 0, holder = n;
        while(holder > 0)
        {
            int x = holder % 10;
            sum += x;
            rev = (rev * 10) + x;
            holder /= 10;
        }
        resultLabel.Text = "The reverse of the number " + n + " is " + rev + "Sum of digits of " + n + " is " + sum;
    }
```

_____
Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 23/11/2024**

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```
        else if(dropDownList.SelectedItem.Text.Equals("forEach"))
     {
        char c = Convert.ToChar(inputBox.Text.ToString());
        String label = "Character: " + c;
        resultLabel.Text = "";
        foreach(char value in label)
        {
          resultLabel.Text = resultLabel.Text + "*" + value;
        }
     }
   }
 }
}
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
   <asp:TextBox runat="server">SYIT46</asp:TextBox><br /><br />
   <asp:Label ID="lbl1" runat="server" Text="Select operation: "></asp:Label>  
   <asp:DropDownList ID="dropDownList" runat="server">
      <asp:ListItem>Fibonacci</asp:ListItem>
      <asp:ListItem>Prime</asp:ListItem>
      <asp:ListItem>Vowels</asp:ListItem>
      <asp:ListItem>Reverse &amp; Sum</asp:ListItem>
      <asp:ListItem Value="forEach"></asp:ListItem>
   </asp:DropDownList><br /><br />

   <asp:Label runat="server" ID="lbl2" Text="Enter the number/string/character:">  </asp:Label>
   <asp:TextBox runat="server" ID="inputBox"></asp:TextBox><br /><br />
   <asp:Button runat="server" ID="btn1" OnClick="handleClick" Text="Submit" /><br /><br />

   <asp:Label runat="server" ID="resultLabel" ></asp:Label>
</asp:Content>
```

Output:

_____

Teacher's Signature

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SYIT17

Select operation: Fibonacci ▼

Enter the number/string/character: 11

Submit

The fibonacci series is: 0 1 1 2 3 5 8 13 21 34 55

SYIT17

Select operation: Prime ▼

Enter the number/string/character: 11

Submit

The number 11 is Prime

SYIT17

Select operation: Vowels ▼

Enter the number/string/character: L

Submit

The character L is a consonant

_____
Teacher's Signature

Practical Number: 02

SYIT17

Select operation: Reverse & Sum ⌄

Enter the number/string/character: 1246

Submit

The reverse of the number 1246 is 6421
Sum of digits of 1246 is 13

SYIT17

Select operation: forEach   ⌄

Enter the number/string/character: L

Submit

*C*h*a*r*a*c*t*e*r*:* *L

Q.2) Create a currency converter system to convert from rupees to dollars and euros.

Code:

Converter.cs

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace MoneyConverter
{
    public class Converter
    {
        private const double valueOfDollar = 84.43, valueOfEuro = 87.99;
        private double amount, dollars, euros;
```

_____

Teacher's Signature

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```csharp
public Converter(double amount = 100)
{
    this.amount = amount;
}
public string rtd()
{
    dollars = amount / valueOfDollar;
    return dollars.ToString() + " Conversion rate @" + valueOfDollar;
}
public string rte()
{
    euros = amount / valueOfEuro;
    return euros.ToString() + " Conversion rate @" + valueOfEuro;
}
}
}
```

Default.aspx.cs:

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

namespace MoneyConverter
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            double amount = Convert.ToDouble(inputbox.Text.ToString());
            Converter obj = new Converter(amount);
```

_____

Teacher's Signature

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```
        resultLabel.Text = "Rupees to Dollar: " + obj.rtd() + "<br />Rupees to Euros: " + obj.rte();
    }
}
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="MoneyConverter._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:Label Text="Money Converter" runat="server" /><br /><br />
    <asp:Label runat="server" Text="Enter the amount: "></asp:Label>  
    <asp:TextBox runat="server" ID="inputbox"></asp:TextBox><br /><br />
    <asp:Button ID="btn1" runat="server" Text="Convert" onClick="handleClick" /><br /><br />
    <asp:Label runat="server" ID="resultLabel"></asp:Label>
</asp:Content>
```

Output:

```
SYIT17
```

Money Converter

Enter the amount: 10034

Convert

Rupees to Dollar: 118.844012791662 Conversion rate @84.43
Rupees to Euros: 114.035685873395 Conversion rate @87.99

Q.3) Create a class Quadratic that solves the quadratic equation.

Code:

Quadratic.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
```

Teacher's Signature

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```csharp
using System.Web;

namespace QuadEq
{
  public class Quadratic
  {
    public static string calc(int num1, int num2, int num3)
    {
      double d = num2 * num2 - (4 * num1 * num3);
      if(d == 0)
      {
        double x, y;
        x = num2 / (2 * num1);
        y = x;
        string message = "Both roots are equal<br />1st root: " + x + "<br />2nd root: " + y;
        return message;
      }
      else if(d > 0)
      {
        double x, y;
        x = (-num2 + Math.Sqrt(d)) / (2 * num1);
        y = (-num2 - Math.Sqrt(d)) / (2 * num1);
        string message = "Both roots are different<br />1st root: " + x + "<br />2nd root: " + y;
        return message;
      }
      else
      {
        return "Roots are imaginary, no solution";
      }
    }
  }
}
```

Default.aspx.cs:

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
```

Teacher's Signature

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```csharp
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace QuadEq
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            int num1, num2, num3;
            num1 = Convert.ToInt32(inputbox1.Text.ToString());
            num2 = Convert.ToInt32(inputbox2.Text.ToString());
            num3 = Convert.ToInt32(inputbox3.Text.ToString());

            string result = Quadratic.calc(num1, num2, num3);
            resultLabel.Text = result;
        }
    }
}
```

Default.aspx:

```aspx
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="QuadEq._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server">SYIT46</asp:TextBox><br /><br />
    <asp:Label Text="Quadratic equation solver" runat="server" />  <br /><br />
    <asp:Label Text="Enter 1st number:" runat="server" />  
    <asp:TextBox runat="server" ID="inputbox1"/><br /><br />
    <asp:Label Text="Enter 1st number:" runat="server" />  
    <asp:TextBox runat="server" ID="inputbox2"/><br /><br />
    <asp:Label Text="Enter 1st number:" runat="server" />  
```

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```
<asp:TextBox runat="server" ID="inputbox3"/><br /><br />
<asp:Button Text="Calculate" ID="btn1" OnClick="handleClick" runat="server" /><br /><br />
<asp:Label ID="resultLabel" runat="server" />
</asp:Content>
```

Output:

SYIT17

Quadratic equation solver

Enter 1st number: 12

Enter 1st number: 23

Enter 1st number: 1

Calculate

Both roots are different
1st root: -0.0445119916891121
2nd root: -1.87215467497755

Q.4) Write a program to show function overloading.

Code:

Func.cs:

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

namespace FuncOverloading
{
    public class Func
    {
        public static int add(int a, int b)
        {
```

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```
        return a + b;
    }
    public static int add(int a, int b, int c)
    {
        return a + b + c;
    }
    public static float add(float a, float b)
    {
        return a + b;
    }
    public static float add(float a, float b, float c)
    {
        return a + b + c;
    }
  }
}
```

Default.aspx.cs:

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

namespace FuncOverloading
{
  public partial class _Default : Page
  {
    protected void Page_Load(object sender, EventArgs e)
    {

    }
    protected void handleClick(object sender, EventArgs e)
    {
      int a = 10, b = 15, c = 20;
      float x = 10f, y = 15f, z = 20f;
```

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```
        Label2.Text = Func.add(a, b).ToString();
        Label4.Text = Func.add(a, b, c).ToString();
        Label6.Text = Func.add(x, y).ToString();
        Label8.Text = Func.add(x, y, z).ToString();


    }
  }
}
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="FuncOverloading._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:Label Text="Function 1" ID="Label1" runat="server" />  
    <asp:Label ID="Label2" runat="server" /><br /><br />
    <asp:Label Text="Function 2" ID="Label3" runat="server" />  
    <asp:Label ID="Label4" runat="server" /><br /><br />
    <asp:Label Text="Function 3" ID="Label5" runat="server" />  
    <asp:Label ID="Label6" runat="server" /><br /><br />
    <asp:Label Text="Function 4" ID="Label7" runat="server" />  
    <asp:Label ID="Label8" runat="server" /><br /><br />
    <asp:Button Text="Overload" OnClick="handleClick" runat="server" />
</asp:Content>
```

Output:

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```
SYIT17
```

Function 1 - 25

Function 2 - 45

Function 3 - 25

Function 4 - 45

```
Overload
```

Q.1) Create a program to demonstrate single inheritance.

Code:

Inheritance.cs:

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace WebApplication3
{
    public class Parent
    {
        public string getParentMessage()
        {
            return "This is parent class";
        }
    }
    public class Child: Parent
    {
        public string getChildMessage()
        {
            return "This is child class";
        }
    }
```

<u>　　　　　　　　　　　</u>

Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 25/11/2024**

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}

Default.aspx.cs:

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

namespace WebApplication3
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void handleClick(object sender, EventArgs e)
        {
            Parent p = new Parent();
            Label1.Text = "Calling parent method from parent class: " + p.getParentMessage();
            Child c = new Child();
            Label2.Text = "Calling parent method from child class: " + c.getParentMessage();
            Label3.Text = "Calling child method from child class: " + c.getChildMessage();
        }
    }
}
```

Default.aspx:

```aspx
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication3._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Label Text="Function 1" ID="Label1" runat="server" /><br /><br />
    <asp:Label Text="Function 2" ID="Label2" runat="server" /><br /><br />
    <asp:Label Text="Function 3" ID="Label3" runat="server" /><br /><br />
    <asp:Button Text="Single Inheritance" OnClick="handleClick" runat="server" />
```

_____

Teacher's Signature

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</asp:Content>

Output:

SYIT17

Calling parent method from parent class: This is parent class

Calling parent method from child class: This is parent class

Calling child method from child class: This is child class

Single Inheritance

Q.2) Create a program to demonstrate multilevel inheritance.

Code:

Inheritance.cs:

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

namespace WebApplication3
{
    public class Parent
    {
        public string getParentMessage()
        {
            return "This is parent class";
        }
    }
    public class Child: Parent
    {
        public string getChildMessage()
        {
            return "This is child class";
```

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```csharp
        }
    }
    public class ThirdChild: Child
    {
        public string getThirdChildMessage()
        {
            return "This is the 3rd child class";
        }
    }
}
```

Default.aspx.cs:

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

namespace WebApplication3
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void handleClick(object sender, EventArgs e)
        {
            ThirdChild tc = new ThirdChild();
            Label1.Text = tc.getParentMessage();
            Label2.Text = tc.getChildMessage();
            Label3.Text = tc.getThirdChildMessage();
        }
    }
}
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
```

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CodeBehind="Default.aspx.cs" Inherits="WebApplication3._Default" %>

```
<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
  <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
  <asp:Label Text="Function 1" ID="Label1" runat="server" /><br /><br />
  <asp:Label Text="Function 2" ID="Label2" runat="server" /><br /><br />
  <asp:Label Text="Function 3" ID="Label3" runat="server" /><br /><br />
  <asp:Button Text="Multilevel Inheritance" OnClick="handleClick" runat="server" />
</asp:Content>
```

Output:

```
SYIT17
```

This is parent class

This is child class

This is the 3rd child class

```
Multilevel Inheritance
```

Q.3) Create a program to demonstrate multiple inheritance.

Code:

Inheritance.cs:

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

namespace WebApplication3
{
    public class Rect
```

_____

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```
  {
    protected double length, breadth;
    public Rect(double length, double breadth)
    {
      this.length = length;
      this.breadth = breadth;
    }
  }
  public interface Calculate
  {
    double area();
  }
  public class MultiInheritance: Rect, Calculate
  {
    public MultiInheritance(double length, double breadth): base(length, breadth)
    {

    }
    public double area()
    {
      return length * breadth;
    }
  }
}
```

Default.aspx.cs:

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

namespace WebApplication3
{
  public partial class _Default : Page
  {
```

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```csharp
protected void Page_Load(object sender, EventArgs e)
{
}
protected void handleClick(object sender, EventArgs e)
{
    MultiInheritance obj = new MultiInheritance(
        Convert.ToDouble(inputbox1.Text.ToString()),
        Convert.ToDouble(inputbox2.Text.ToString())
    );
    resultLabel.Text = "Area is: " + obj.area() + "sq.cm";
}
}
}
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication3._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Label Text="Enter length:" runat="server" />  
    <asp:TextBox runat="server" ID="inputbox1"/><br /><br />
    <asp:Label Text="Enter breadth:" runat="server" />  
    <asp:TextBox runat="server" ID="inputbox2"/><br /><br />
    <asp:Button Text="Multiple Inheritance" OnClick="handleClick" runat="server" /><br /><br />
    <asp:Label ID="resultLabel" runat="server" /><br /><br />
</asp:Content>
```

Output:

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SYIT17

Enter length: 12

Enter breadth: 12

Multiple Inheritance

Area is: 144sq.cm

Q.1) Create a program to demonstrate hierarchical inheritance.

Code:

Heirarchical.cs:

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

namespace WebApplication4
{
  public class Parent
  {
    public string showParent()
    {
      return "This is parent class";
    }
  }
  public class Child1: Parent
  {
    public string showChild1()
    {
      return "1st child class";
    }
  }
```

_____

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```
public class Child2 : Parent
{
    public string showChild2()
    {
        return "2nd child class";
    }
}
}
```

Default.aspx.cs

```
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 _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            Child1 obj1 = new Child1();
            Child2 obj2 = new Child2();

            label1.Text = obj1.showParent() + " called from " + obj1.showChild1();
            label2.Text = obj2.showParent() + " called from " + obj2.showChild2();
        }
    }
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
```

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```
CodeBehind="Default.aspx.cs" Inherits="WebApplication4._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Label ID="label1" runat="server" /><br /><br />
    <asp:Label ID="label2" runat="server" /><br /><br />
    <asp:Button Text="Heirarchical Inheritance" onClick="handleClick" ID="btn1" runat="server" />
</asp:Content>
```

Output:

Q.2) Show constructor overloading in a C# program.

Code:

Constructor.cs:

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

namespace WebApplication4
{
    public class Marksheet
    {
        private float sub1, sub2, sub3;

        public Marksheet()
        {
            this.sub1 = 20;
```

_____

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```csharp
      this.sub2 = 30;
      this.sub3 = 40;
    }
    public Marksheet(float sub1)
    {
      this.sub1 = sub1;
      this.sub2 = 0;
      this.sub3 = 0;
    }
    public Marksheet(float sub1, float sub2)
    {
      this.sub1 = sub1;
      this.sub2 = sub2;
      this.sub3 = 0;
    }
    public Marksheet(float sub1, float sub2,float sub3)
    {
      this.sub1 = sub1;
      this.sub2 = sub2;
      this.sub3 = sub3;
    }
    public float getMarks()
    {
      return sub1 + sub2 + sub3;
    }
  }
}
```

Default.aspx.cs:

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


namespace WebApplication4
```

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```
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            Marksheet m1 = new Marksheet();
            Marksheet m2 = new Marksheet(10);
            Marksheet m3 = new Marksheet(10, 20);
            Marksheet m4 = new Marksheet(10, 20, 30);

            label1.Text = "Marks Obtained = " + m1.getMarks();
            label2.Text = "Marks Obtained = " + m2.getMarks();
            label3.Text = "Marks Obtained = " + m3.getMarks();
            label4.Text = "Marks Obtained = " + m4.getMarks();
        }
    }
}
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication4._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Label ID="label1" runat="server" /><br /><br />
    <asp:Label ID="label2" runat="server" /><br /><br />
    <asp:Label ID="label3" runat="server" /><br /><br />
    <asp:Label ID="label4" runat="server" /><br /><br />
    <asp:Button Text="Constructor Overloading" onClick="handleClick" ID="btn1" runat="server" />
</asp:Content>
```

Output:

Teacher's Signature

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SYIT17

Marks Obtained = 90

Marks Obtained = 10

Marks Obtained = 30

Marks Obtained = 60

Constructor Overloading

Q.3) Create an interface and show its workings.

Code:

Interface.cs

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

namespace WebApplication4
{
    public interface Area
    {
        float area();
    }
    public class Circle : Area
    {
        float r;

        public Circle(float r = 0)
        {
            this.r = r;
        }
        public float area()
```

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```
    {
        return 3.14f * r * r;
    }
  }
}
```

Default.aspx.cs

```csharp
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 _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            Circle obj = new Circle(float.Parse(inputbox1.Text.ToString()));
            resultLabel.Text = "Area of Circle: " + obj.area() + "sq.cm";
        }
    }
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication4._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Label runat="server" >Enter the radius: </asp:Label>  
    <asp:TextBox runat="server" ID="inputbox1" /><br /><br />
```

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```
<asp:Button Text="Calculate" onClick="handleClick" ID="btn1" runat="server" /><br /><br />
<asp:Label ID="resultLabel" runat="server" /><br /><br />
```

```
</asp:Content>
```

Output:

SYIT17

Enter the radius: 3

Calculate

Area of Circle: 28.26sq.cm

Q.4) Display a message using calendar controls.

Code:

Default.aspx.cs:

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

namespace WebApplication2
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void calendarDayRender(object sender, DayRenderEventArgs e)
        {
            if(e.Day.Date == new DateTime(2024, 11, 14))
            {
                e.Cell.Controls.Add(new LiteralControl("<br/>Children's Day"));
```

_____
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```
        }
        if (e.Day.Date == new DateTime(2024, 11, 01))
        {
            e.Cell.Controls.Add(new LiteralControl("<br/>Diwali"));
        }
    }
}
}
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Calendar runat="server" ID="calendar" FirstDayOfWeek="Sunday" NextPrevFormat="CustomText"
OnDayRender="calendarDayRender" TitleFormat="Month" ></asp:Calendar>
</asp:Content>
```

Output:

SYIT17

<	November					>
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
27	28	29	30	31	1 Diwali	2
3	4	5	6	7	8	9
10	11	12	13	14 Children's Day	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Q.5) Display holidays using calendar controls.

Code:

_____

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Default.aspx.cs

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

namespace WebApplication2
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void calendarDayRender(object sender, DayRenderEventArgs e)
        {
            if (
                (e.Day.Date >= new DateTime(2024, 11, 14)) && (e.Day.Date <= new DateTime(2024, 11, 18))
                || e.Day.Date.DayOfWeek == DayOfWeek.Sunday
            )
            {
                e.Cell.BackColor = System.Drawing.Color.LightSteelBlue;
            }
        }
    }
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Calendar runat="server" ID="calendar" FirstDayOfWeek="Sunday" BackColor="Salmon" BorderColor="Black"
NextPrevFormat="CustomText" OnDayRender="calendarDayRender" TitleFormat="Month" ></asp:Calendar>
```

<div align="right">_____
Teacher's Signature</div>

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</asp:Content>

Output:

SYIT17

Q.6) Display selected day in calendar controls using only styles.

Code:

Default.aspx.cs

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

namespace WebApplication2
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
```

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```
        }
        protected void calendarDayRender(object sender, DayRenderEventArgs e)
        {


        }
    }
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>


<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
  <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
  <asp:Calendar runat="server" ID="calendar" FirstDayOfWeek="Sunday" ShowGridLines="true"
NextPrevFormat="CustomText" OnDayRender="calendarDayRender" TitleFormat="Month"
SelectedDayStyleBackColor="Maroon" DayHeaderStyle-BorderColor="Wheat" BorderStyle="Dotted"></asp:Calendar>
</asp:Content>
```

Output:

SYIT17

<	November					>
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Q.7) Display the difference between 2 dates.

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Code:

Default.aspx.cs

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

namespace WebApplication2
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            TimeSpan t = calendar2.SelectedDate - calendar1.SelectedDate;
            resultLabel.Text = "Difference between the 2 dates is: " + t;
        }
    }
}
```

Default.aspx

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:TextBox runat="server" >SYIT46</asp:TextBox><br /><br />
    <asp:Calendar ID="calendar1" FirstDayOfWeek="Sunday" TitleFormat="Month" runat="server"
BackColor="LavenderBlush" Caption="Calendar 1" />
    <asp:Calendar ID="calendar2" FirstDayOfWeek="Sunday" TitleFormat="Month" runat="server"
BackColor="LavenderBlush" Caption="Calendar 2" /><br />
    <asp:Button Text="Calculate" ID="btn1" OnClick="handleClick" runat="server" /><br /><br />
    <asp:Label ID="resultLabel" runat="server" />
```

<u>   </u>

Teacher's Signature

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</asp:Content>

Output:

SYIT17

SYIT17

Calendar 1

<		November				>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Calendar 2

<		November				>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Calculate

Difference between the 2 dates is: 29.00:00:00

Q1. Create a simple web program with various server controls to demonstrate setting and use of their properties.

Default.aspx.cs:
using System;

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

namespace wfc
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            string s;
            if (rb1.Checked == true)
            {
                s = rb1.Text;
            }
            else if (rb2.Checked == true)
            {
                s = rb2.Text;
            }
            else
            {
                s = rb3.Text;
            }

            res.Text = "You've been enrolled in " + s + "" + ddl1.SelectedItem + ".";
        }
    }
}
```

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Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="wfc._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <div class="jumbotron">
        <asp:Label ID="Label1" runat="server" Text="Name: "></asp:Label> 
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox> <br />
        <asp:Label ID="Label2" runat="server" Text="Roll no: "></asp:Label>
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br />
        <asp:Label ID="Label3" runat="server" Text="Class: "></asp:Label>
        <asp:RadioButton ID="rb1" runat="server" Text="FY" />  
        <asp:RadioButton ID="rb2" runat="server" Text="SY" />  
        <asp:RadioButton ID="rb3" runat="server" Text="TY" /><br />
        <asp:Label ID="Label4" runat="server" Text="Course: "></asp:Label>
        <asp:DropDownList ID="ddl1" runat="server">
            <asp:ListItem>BSC(IT)</asp:ListItem>
            <asp:ListItem>BSC(CS)</asp:ListItem>
            <asp:ListItem>BMS</asp:ListItem>
        </asp:DropDownList><br />
               <asp:Button ID="Button1" runat="server"
Text="SUBMIT" OnClick="Button1_Click" /><br />
        <asp:Label ID="res" runat="server" Text=" "></asp:Label>
    </div>
</asp:Content>
```

OUTPUT:

Class: <u>SYIT</u> **Sem: IV** **Roll No.: SYIT46** **Date: 29/11/24**

Course Name: Advance Web programming **Page no:**

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Q1. Demonstrate the use of Delegate with Web Application.

CODE:
Default.aspx:
```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="pr1._Default" %>
<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:Label ID="Label3" runat="server" Text="Hareesh"></asp:Label><br /><br />
    <asp:Label ID="Label1" runat="server" Text=" "></asp:Label><br /><br />
    <asp:Label ID="Label2" runat="server" Text=" "></asp:Label><br /><br />
    <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Button" />
</asp:Content>
```

Default.aspx.cs:
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace pr1
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        { }

        public delegate void SimpleDelegate();
        public void firstfunction()
        {
            Label1.Text = "1st funtion called through simpledelegate() method <br>";
        }
        public void secondfunction()
        {
            Label2.Text = "2nd funtion called through simpledelegate() method <br>";
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            SimpleDelegate d1 = new SimpleDelegate(firstfunction);
            d1();
            SimpleDelegate d2 = new SimpleDelegate(secondfunction);
            d2();
        }
    }
}
```

_____
Teacher's Signature

Class: <u>SYIT</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date: 29/11/24**

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OUTPUT:

Hareesh

1st funtion called through simpledelegate() method

2nd funtion called through simpledelegate() method

Button

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Q2. Demonstrate the use of Delegate with Console Application.

CODE:
Program.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApplication7
{
    delegate string strMethod(string str);
    class DelegateTest
    {
        static string ReplaceSpaces(string s)
        {
            Console.WriteLine("Changing Spaces with -");
            return s.Replace(' ', '-');
        }
        static string RemoveSpaces(string s)
        {
            string temp = "";
            int i;
            Console.WriteLine("Removing Spaces");
            for (i = 0; i < s.Length; i++)
            {
                if (s[i] != ' ')
                {
                    temp += s[i];
                }
            }
            return temp;
        }
        static string Reverse(string s)
        {
            string temp = "";
            int i;
            Console.WriteLine("Reversing Spaces");
            for (i = s.Length - 1; i >= 0; i--)
            {
                temp += s[i];
            }
            return temp;
```

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Teacher's Signature
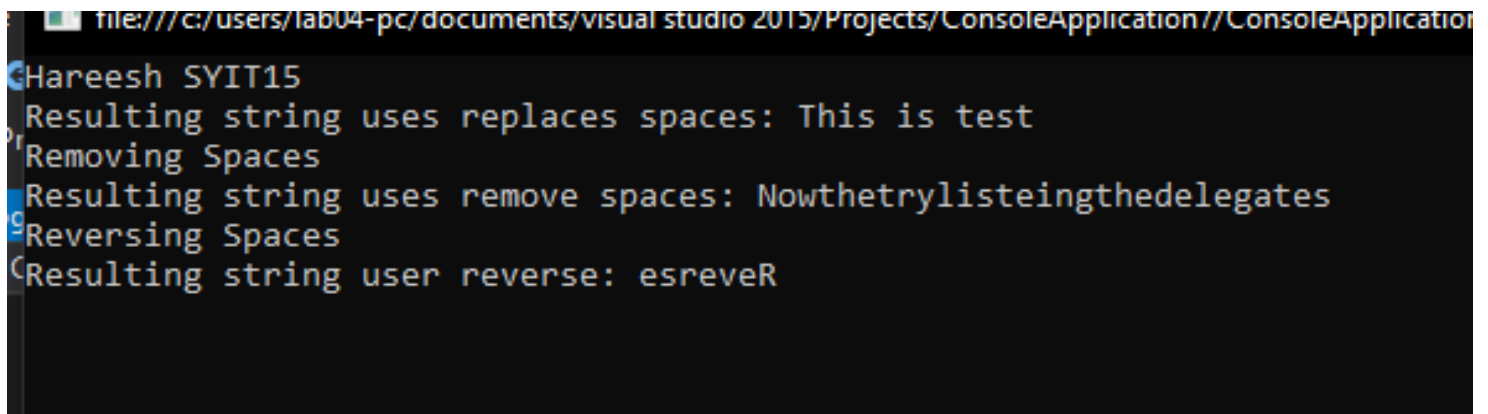
Practical Number: 6

```
        }
    static void Main(string[] args)
    {
        strMethod s = new strMethod(ReplaceSpaces);
        Console.WriteLine("Hareesh SYIT15");
        string str = "This is test";
        Console.WriteLine("Resulting string uses replaces spaces: " + str);
        strMethod a = new strMethod(RemoveSpaces);
        str = a("Now the try listeing the delegates");
        Console.WriteLine("Resulting string uses remove spaces: " + str);
        strMethod b = new strMethod(Reverse);
        str = b("Reverse");
        Console.WriteLine("Resulting string user reverse: " + str);
        Console.WriteLine();
        Console.ReadLine();
    }
  }
}
```

OUTPUT:

Q.1) Create a program to show the use of user controls.

Code:

WebApplicationUC.ascx.cs:

using System;

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```csharp
using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;


namespace WebApplication10

{

    public partial class WebUserControl1 : System.Web.UI.UserControl

    {

        protected void Page_Load(object sender, EventArgs e)

        {


        }

        protected void handleClick(object sender, EventArgs e)

        {

            Label1.Text = "Your name is: " + TextBox1.Text + " You are from: " + TextBox2.Text;

        }

    }

}
```

WebApplicationUC.ascx

```
<%@ Control Language="C#" AutoEventWireup="true" CodeBehind="WebUserControl1.ascx.cs"
Inherits="WebApplication10.WebUserControl1" %>

<asp:Label Text="Name:" runat="server" />  

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br><br>

<asp:Label Text="City:" runat="server" />  

<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><br><br>

<asp:Label ID="Label1" runat="server" Text="Label"></asp:Label><br /><br />

<asp:Button ID="Button1" runat="server" OnClick="handleClick" Text="Button" />
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"

CodeBehind="Default.aspx.cs" Inherits="WebApplication10._Default" %>

<%@ Register src="WebUserControl1.ascx" tagname="WebUserControl1" tagprefix="uc1" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

    <uc1:WebUserControl1 ID="WebUserControl11" runat="server" />

</asp:Content>
```

_____

Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 30/11/2024**

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Output:

Name: SYIT17

City: Berlin

Your name is: SYIT17 You are from: Berlin

Button

Q.2) Write a user control program to set the copyrights to entered name

Code:

UserControl.ascx.cs:

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

namespace WebApplication2
{
    public partial class UserControl : System.Web.UI.UserControl
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            string name = inputbox1.Text.ToString();
            resultLabel.Text = "© Copyrights reserved at<br />" + name + " 2024-2024";
        }
    }
```

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Teacher's Signature

Practical Number: 07

}

UserControl.ascs:

```
<%@ Control Language="C#" AutoEventWireup="true" CodeBehind="UserControl.ascx.cs"
Inherits="WebApplication2.UserControl" %>


<asp:Label ID="Label1" runat="server" Text="Enter your name: "></asp:Label>
<asp:TextBox ID="inputbox1" runat="server"></asp:TextBox><br /><br />
<asp:Button ID="Button1" runat="server" OnClick="handleClick" Text="Generate" /><br /><br />
<asp:Label ID="resultLabel" runat="server"></asp:Label>
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>


<%@ Register Src="~/UserControl.ascx" TagPrefix="uc1" TagName="UserControl" %>
<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <uc1:UserControl runat="server" id="UserControl" />
</asp:Content>
```

Output:

Enter your name: SYIT17

Generate

© Copyrights reserved at
SYIT17 2024-2024

Q.1) Create a program that demonstrates AdRotator.

Steps to Use AdRotator in a Web Application -

Open Visual Studio - Open Visual Studio and create a new project.

Create a New Project - Create a new project by selecting "(link unavailable) Web Application" under the "C#" section.

Add a New XML File - Go to Solution Explorer, right-click on the project, select "Add" > "New Item" > "XML File", and click "Add".

Download and Add Images - Download three images and save them in an appropriate folder. Then, go to Solution

_____

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Explorer, right-click on the project, select "Add" > "Existing Item", and select the three images to add them to the project.

Write Code in Default.aspx and XMLFile1.xml - Write the necessary code in Default.aspx and XMLFile1.xml to configure the AdRotator control.

Run the Code - Run the code to see the AdRotator control in action.

Code:

XMLFile1.xml:

```xml
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
  <Ad>
    <ImageUrl>https://shop.rosesarerosie.com/cdn/shop/files/DIGITAL.jpg?v=1727715705</ImageUrl>
    <Impressions>20</Impressions>
    <NavigateUrl>https://shop.rosesarerosie.com/products/rosie-digital-album</NavigateUrl>
    <Keywords>ROSÉ, ROSIE</Keywords>
    <AlternateText>ROSÉ's 1st album</AlternateText>
    <br />
  </Ad>
</Advertisements>
```

XMLFile2.xml:

```xml
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
  <Ad>
    <ImageUrl>https://taypedia.com/wp-content/uploads/2024/05/ttpd4.jpeg</ImageUrl>
    <Impressions>25</Impressions>
    <NavigateUrl>https://taypedia.com/wiki/the-tortured-poets-department/</NavigateUrl>
    <Keywords>the-tortured-poets-department, Toylor Swift</Keywords>
    <AlternateText>Studio album by Taylor Swift</AlternateText>
    <br />
  </Ad>
</Advertisements>
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication2._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
  <asp:Label Text="Buy Rosie" runat="server"/><br />
```

_____

Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 3/12/2024**

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```
<asp:XmlDataSource runat="server" ID="XmlDataSource1" DataFile="~/XMLFile1.xml"/>
<asp:AdRotator runat="server" ID="adRotator1" DataSourceID="XmlDataSource1" Height='500px' Width='500px' /><br /><br />


<asp:Label Text="Buy The Tortured Poets Department" runat="server" /><br />
<asp:XmlDataSource runat="server" ID="XmlDataSource2" DataFile="~/XMLFile2.xml"/>
<asp:AdRotator runat="server" ID="adRotator2" DataSourceID="XmlDataSource2" Height='500px' Width='500px' /><br /><br />


</asp:Content>
```
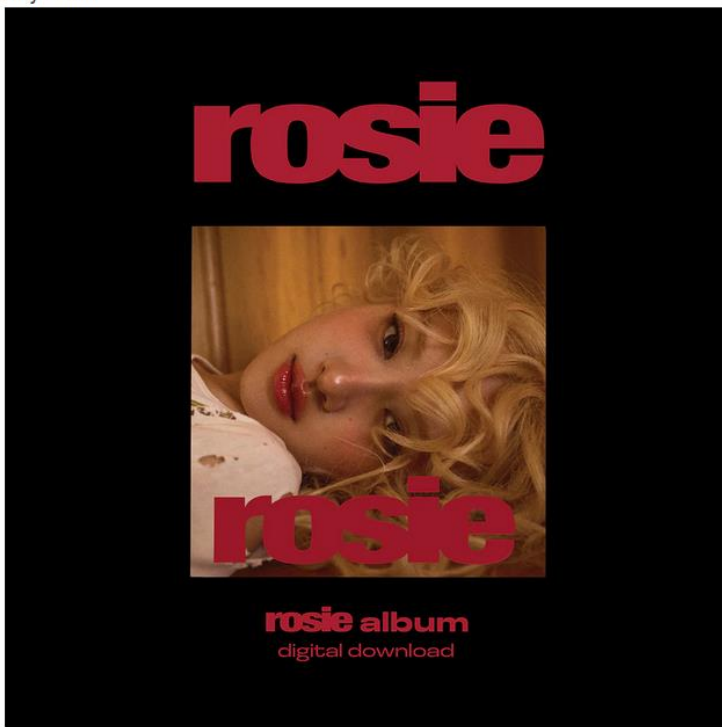
Output:

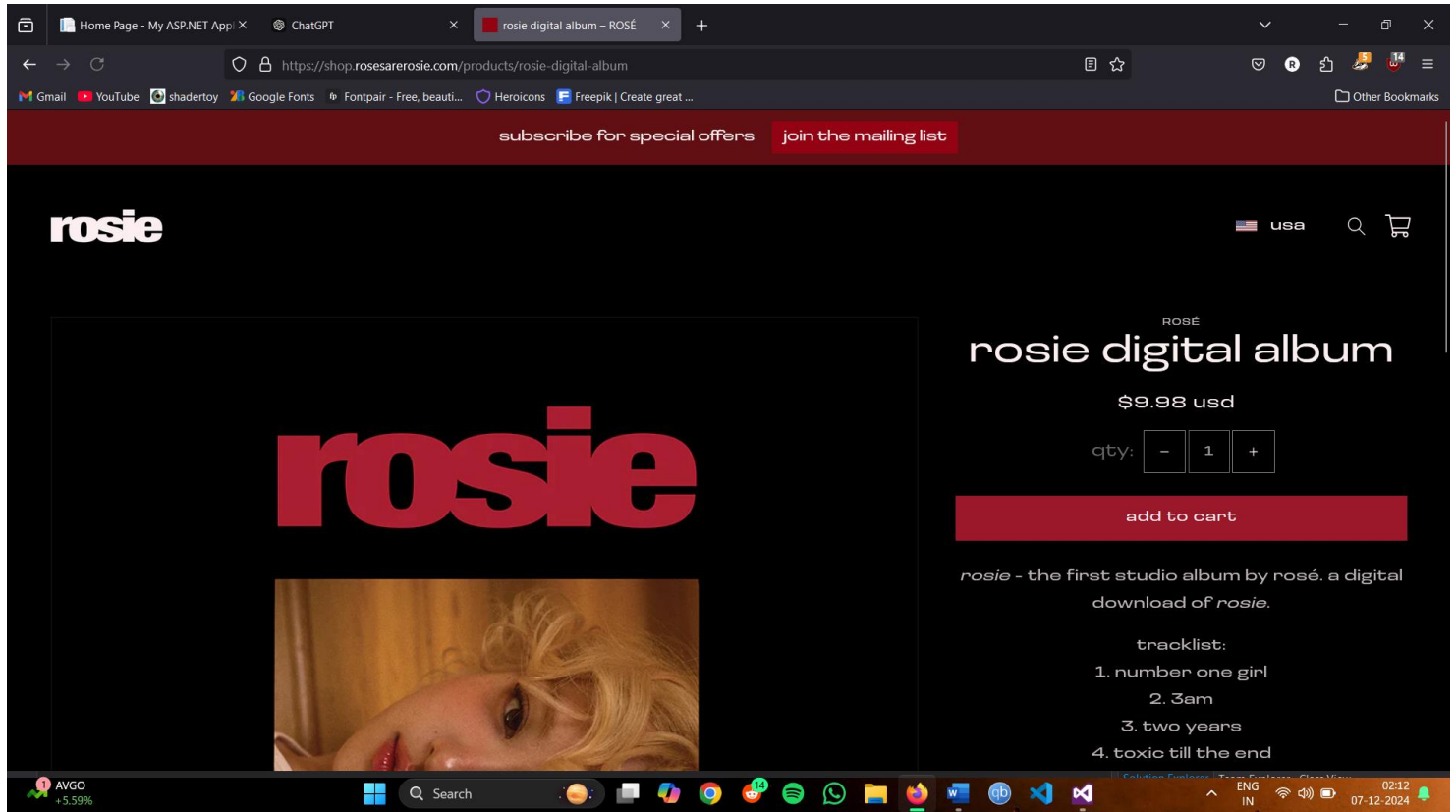**Class: <u>SYIT(NEP)</u>**   **Sem: IV**   **Roll No.: SYIT46**   **Date : 3/12/2024**

Course Name: Advanced Web Programming   **Page no:**

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Buy The Tortured Poets Department

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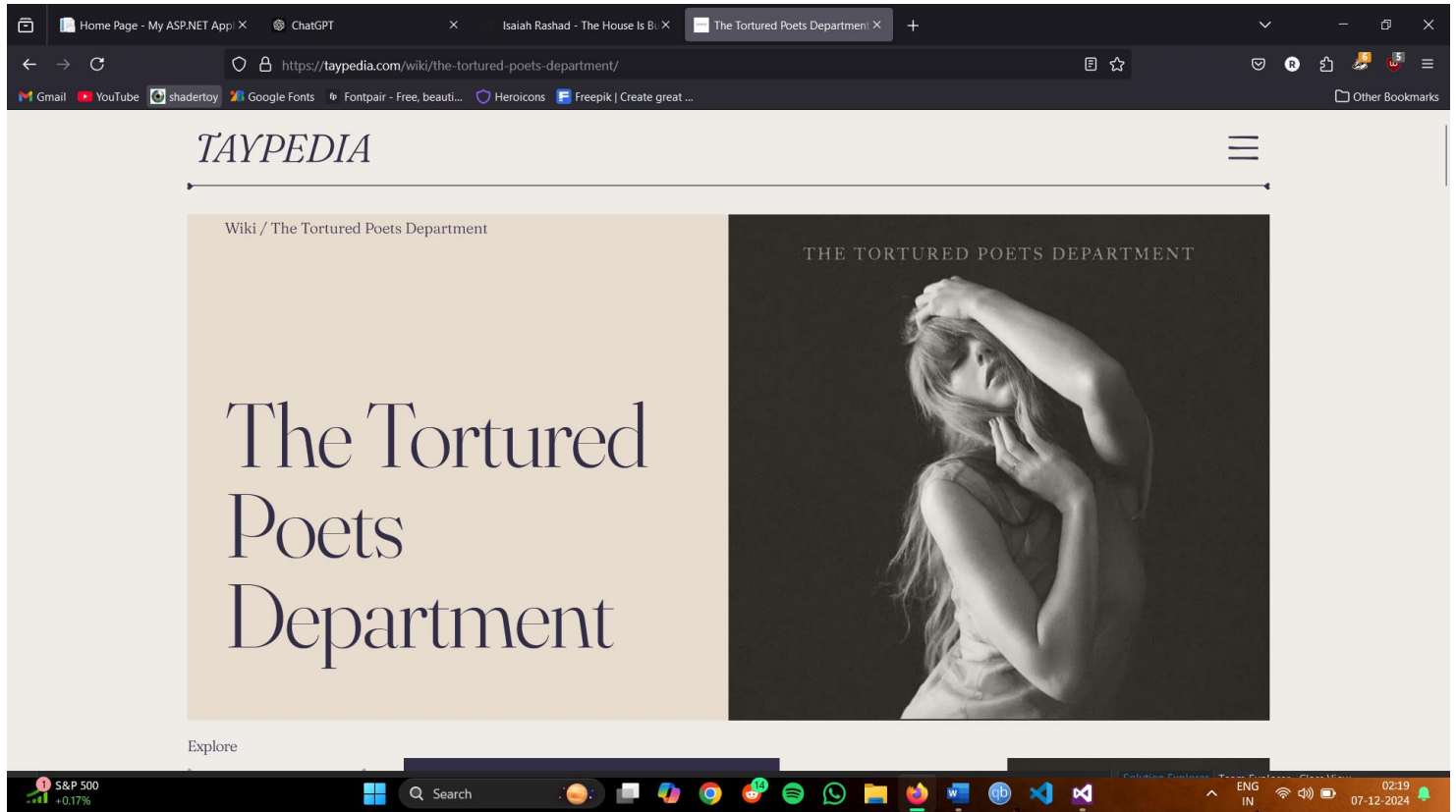
Q.1) Perform input validation for forms

Code:

Derfault.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="InputValidation._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
    <asp:Label Text="Enter a class: " runat="server" />  
    <asp:TextBox ID="inputBox1" runat="server" />
    <asp:RangeValidator MinimumValue="6" MaximumValue="12" Type="Integer" ForeColor="Red"
ControlToValidate="inputBox1" ID="RangeValidator1" runat="server" ErrorMessage="Enter a value between 6-
12"></asp:RangeValidator>
    <br /><br />

    <asp:Label Text="Choose a color: " runat="server" />  
    <asp:DropDownList runat="server" ID="dropdown1">
```

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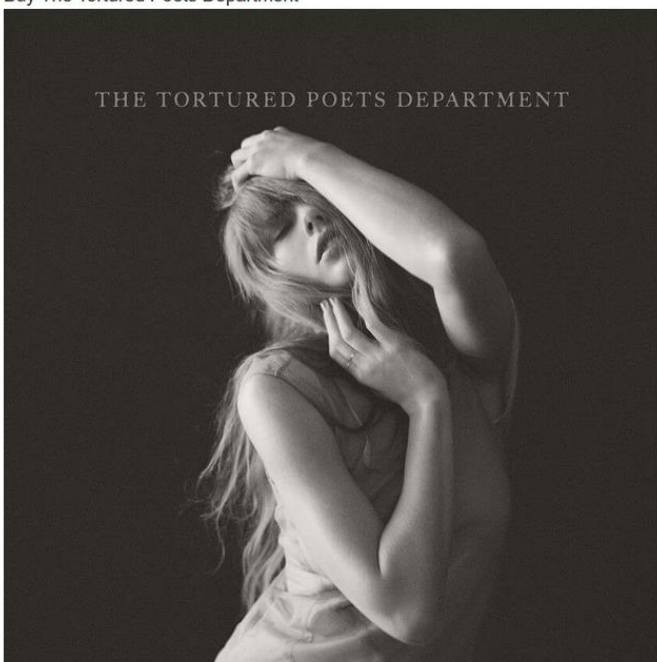
Course Name: Advanced Web Programming   **Page no:**

Practical Number: 09

```
    <asp:ListItem Text="" />
    <asp:ListItem Text="Red" />
    <asp:ListItem Text="Blue" />
   </asp:DropDownList>
   <asp:RequiredFieldValidator ErrorMessage="Field cannot be empty" ForeColor="Red" ControlToValidate="dropdown1"
runat="server" />
   <br /><br />

   <asp:Label Text="Enter your email: " runat="server" />  
   <asp:TextBox ID="inputBox2" runat="server" />
   <asp:RegularExpressionValidator ErrorMessage="Invalid email expression!! Enter again" ForeColor="Red"
ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*" ControlToValidate="inputBox2" runat="server" />
   <br /><br />

   <asp:Button Text="Submit" runat="server" /><br /><br />
   <asp:ValidationSummary ForeColor="Red" runat="server" />
</asp:Content>
```

Output:

Enter a class: `13` Enter a value between 6-12

Choose a color: `[ ▼ ]` Field cannot be empty

Enter your email: `allthestars` Invalid email expression!! Enter again

`Submit`

- Enter a value between 6-12
- Field cannot be empty
- Invalid email expression!! Enter again

Q.2) Perform input validation for forms

Code:

Default.aspx.cs:

Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 14/12/2024**

Course Name: Advanced Web Programming   **Page no:**

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


namespace InputValidation2
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void handleClick(object sender, EventArgs e)
        {
            float marksInAWP = float.Parse(marksInput1.Text);
            float marksInDBMS = float.Parse(marksInput2.Text);
            float marksInCoreJava = float.Parse(marksInput3.Text);


            float resultPercentage = (marksInAWP + marksInDBMS + marksInCoreJava) * 100 / 180;
            resultLabel1.Text = "Mr./Ms. " + nameInput.Text;
            resultLabel2.Text = "You obtained " + resultPercentage + "% this year";
            if (resultPercentage <= 40.0f) {
                resultLabel3.Text = "You Fail";
            }
            else
            {
                resultLabel3.Text = "You Pass";
            }
        }
    }
}
```

Default.aspx:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
```

_____
Teacher's Signature

Class: <u>SYIT(NEP)</u>　　　**Sem: IV**　　　**Roll No.: SYIT46**　　　**Date : 14/12/2024**

Course Name: Advanced Web Programming　　　　　**Page no:**

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```
CodeBehind="Default.aspx.cs" Inherits="InputValidation2._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">
   <asp:Label Text="Enter your name: " runat="server" />  
   <asp:TextBox ID="nameInput" runat="server" />
   <asp:RequiredFieldValidator ErrorMessage="Name cannot be empty" ForeColor="Red" ControlToValidate="nameInput"
runat="server" />
   <br /><br />

   <asp:Label Text="Enter your ABC-ID: " runat="server" />  
   <asp:TextBox ID="ABCIDInput" runat="server" />
   <asp:RangeValidator ErrorMessage="ABC-ID must be 13 digits" ForeColor="Red" MaximumValue="9999999999999"
MinimumValue="1000000000000" Type="Double" ControlToValidate="ABCIDInput" runat="server" />
   <br /><br />

   <asp:Label Text="Enter your email: " runat="server" />  
   <asp:TextBox ID="emailInput" runat="server" />
   <asp:RegularExpressionValidator ErrorMessage="Invalid email expression!! Enter again" ForeColor="Red"
ValidationExpression="\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*" ControlToValidate="emailInput" runat="server" />
   <br /><br />

   <asp:Label Text="Enter your marks in AWP: " runat="server" />  
   <asp:TextBox ID="marksInput1" runat="server" />
   <asp:RangeValidator ErrorMessage="Marks must be between 0-60" ForeColor="Red" MaximumValue="60"
MinimumValue="0" Type="Integer" ControlToValidate="marksInput1" runat="server" />
   <br /><br />

   <asp:Label Text="Enter your marks in DBMS: " runat="server" />  
   <asp:TextBox ID="marksInput2" runat="server" />
   <asp:RangeValidator ErrorMessage="Marks must be between 0-60" ForeColor="Red" MaximumValue="60"
MinimumValue="0" Type="Integer" ControlToValidate="marksInput2" runat="server" />
   <br /><br />

   <asp:Label Text="Enter your marks in Core Java: " runat="server" />  
   <asp:TextBox ID="marksInput3" runat="ser-ver" />
```

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Class: <u>SYIT(NEP)</u>　　　**Sem: IV**　　　**Roll No.: SYIT46**　　　**Date : 14/12/2024**

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```
<asp:RangeValidator ErrorMessage="Marks must be between 0-60" ForeColor="Red" MaximumValue="60"
MinimumValue="0" Type="Integer" ControlToValidate="marksInput3" runat="server" />
<br /><br />

<asp:Button Text="Submit" ID="btn1" OnClick="handleClick" runat="server" /><br /><br />

<asp:ValidationSummary ForeColor="Red" runat="server" />

<div style="padding:4px;border:2px solid black;text-align:center;">
  <asp:Label ID="resultLabel1" runat="server" /><br /><br />
  <asp:Label ID="resultLabel2" runat="server" /><br /><br />
  <asp:Label ID="resultLabel3" runat="server" /><br /><br />
</div>
</asp:Content>
```

Output:

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 14/12/2024**

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Enter your name: [   ]   Name cannot be empty

Enter your ABC-ID: [123456789012]   ABC-ID must be 13 digits

Enter your email: [null]   Invalid email expression!! Enter again

Enter your marks in AWP: [100]   Marks must be between 0-60

Enter your marks in DBMS: [100]   Marks must be between 0-60

Enter your marks in Core Java: [100]   Marks must be between 0-60

[Submit]

- Name cannot be empty
- ABC-ID must be 13 digits
- Invalid email expression!! Enter again
- Marks must be between 0-60
- Marks must be between 0-60
- Marks must be between 0-60

Teacher's Signature

BHAVAN'S COLLEGE AUTONOMOUS, ANDHERI-WEST
PRACTICAL JOURNAL

Class: SYIT(NEP)   **Sem: IV**   **Roll No.: SYIT46**   **Date : 14/12/2024**

Course Name: Advanced Web Programming   **Page no:**

Practical Number: 09

Enter your name: Rahul Jain

Enter your ABC-ID: 1234567890128

Enter your email: null@gmail.com

Enter your marks in AWP: 60

Enter your marks in DBMS: 40

Enter your marks in Core Java: 20

Submit

Mr./Ms. Rahul Jain

You obtained 66.66666% this year

You Pass

_____

Teacher's Signature

Q.1) Create a site master of your own and link it with multiple pages.

Code:

Site1.master:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs" Inherits="WebApplication3.Site1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
    <style type="text/css">
        .auto-style1 {
            width: 100%;
        }
        .auto-style2 {
            width: 447px;
            height: 385px;
        }
        .auto-style3 {
            width: 447px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <table class="auto-style1">
            <tr>
                <td class="auto-style3">
                    <asp:Menu ID="Menu1" runat="server">
                        <Items>
```

```
                    <asp:MenuItem        NavigateUrl="~/WebForm1.aspx"      Text="Page    1"      Value="Page
1"></asp:MenuItem>
                    <asp:MenuItem        NavigateUrl="~/WebForm2.aspx"      Text="Page    2"      Value="Page
2"></asp:MenuItem>
                    <asp:MenuItem        NavigateUrl="~/WebForm3.aspx"      Text="Page    3"      Value="Page
3"></asp:MenuItem>
                </Items>
            </asp:Menu>
        </td>
        <td>Bhavans College SybscIT Orina Guha</td>
    </tr>
    <tr>
        <td class="auto-style3">
            <img alt="stone" class="auto-style2" src="Untitled.jpg" /></td>
        <td>
            <asp:GridView       ID="GridView1"       runat="server"       AutoGenerateColumns="False"
DataKeyNames="CategoryID" DataSourceID="SqlDataSource1">
                <Columns>
                    <asp:BoundField DataField="CategoryID" HeaderText="CategoryID" InsertVisible="False"
ReadOnly="True" SortExpression="CategoryID" />
                    <asp:BoundField        DataField="CategoryName"        HeaderText="CategoryName"
SortExpression="CategoryName" />
                    <asp:BoundField        DataField="Description"        HeaderText="Description"
SortExpression="Description" />
                </Columns>
            </asp:GridView>
            <asp:SqlDataSource       ID="SqlDataSource1"       runat="server"       ConnectionString="<%$
ConnectionStrings:NorthwindConnectionString3            %>"            ProviderName="<%$
ConnectionStrings:NorthwindConnectionString3.ProviderName   %>"   SelectCommand="SELECT   *   FROM
[Categories]"></asp:SqlDataSource>
        </td>
    </tr>
```

Practical Number: 10

```
            <tr>
              <td  class="auto-style3">
                <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
                </asp:ContentPlaceHolder>
              </td>
              <td> </td>
            </tr>
          </table>
        </form>
    </body>
    </html>
```

WebForm1.aspx

```
<%@   Page   Title=""   Language="C#"   MasterPageFile="~/Site1.Master"   AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication3.WebForm1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    <style type="text/css">
    .auto-style5 {
        width: 241px;
        height: 209px;
    }
</style>
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <p>The gentle rustle of leaves whispers a serenity only nature can provide.</p>
</asp:Content>
```

WebForm2.aspx

```
<%@   Page   Title=""   Language="C#"   MasterPageFile="~/Site1.Master"   AutoEventWireup="true"
CodeBehind="WebForm2.aspx.cs" Inherits="WebApplication3.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    <style type="text/css">
```

Practical Number: 10

```
        .auto-style5 {
          width: 225px;
          height: 225px;
        }
    </style>
    </asp:Content>
    <asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
        <p>Peace flows like a quiet stream, nourishing the soul with each moment of stillness.</p>
    </asp:Content>
```

WebForm3.aspx

```
<%@    Page    Title=""    Language="C#"    MasterPageFile="~/Site1.Master"    AutoEventWireup="true"
CodeBehind="WebForm3.aspx.cs"  Inherits="WebApplication3.WebForm3"  %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
    <style type="text/css">
    .auto-style5 {
        width: 225px;
        height: 225px;
    }
    </style>
    </asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <p> Nature's calm embraces the heart, turning chaos into tranquil harmony.</p>
    </asp:Content>
```

Output:

WebForm 1:

　　　　　　　　　　　　　　　　　　　　　　　　　　　　_____
　　　　　　　　　　　　　　　　　　　　　　　　　　　　Teacher's Signature

Bhavans College SybscIT Orina Guha

CategoryID	CategoryName	Description
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonings
3	Confections	Desserts, candies, and sweet breads
4	Dairy Products	Cheeses
5	Grains/Cereals	Breads, crackers, pasta, and cereal
6	Meat/Poultry	Prepared meats
7	Produce	Dried fruit and bean curd
8	Seafood	Seaweed and fish

The gentle rustle of leaves whispers a serenity only nature can provide.

WebForm 2:

Bhavans College SybscIT Orina Guha

CategoryID	CategoryName	Description
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonings
3	Confections	Desserts, candies, and sweet breads
4	Dairy Products	Cheeses
5	Grains/Cereals	Breads, crackers, pasta, and cereal
6	Meat/Poultry	Prepared meats
7	Produce	Dried fruit and bean curd
8	Seafood	Seaweed and fish

Peace flows like a quiet stream, nourishing the soul with each moment of stillness.

Teacher's Signature

BHAVAN'S COLLEGE AUTONOMOUS, ANDHERI-WEST
PRACTICAL JOURNAL

Class: SYIT(NEP) **Sem: IV** **Roll No.: SYIT46** **Date : 07/01/2025**

Course Name: Advanced Web Programming **Page no:**

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WebForm 3:

Bhavans College SybscIT Orina Guha

CategoryID	CategoryName	Description
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonings
3	Confections	Desserts, candies, and sweet breads
4	Dairy Products	Cheeses
5	Grains/Cereals	Breads, crackers, pasta, and cereal
6	Meat/Poultry	Prepared meats
7	Produce	Dried fruit and bean curd
8	Seafood	Seaweed and fish

Nature's calm embraces the heart, turning chaos into tranquil harmony.

Teacher's Signature

Class: <u>SYIT(NEP   )</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07-01-2025**

Course Name: Advanced Web Programming   **Page no: 66**

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Q). Demonstrate the use of following tools:

1. <u>**GridView:**</u>

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="WebApplication19._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

             
   <asp:Label ID="Label1" runat="server" BorderStyle="Double" Text="Mayuresh Morye SYIT32"></asp:Label>
   <br />
   <asp:GridView ID="GridView1" runat="server" AllowPaging="True" AllowSorting="True" AutoGenerateColumns="False" DataKeyNames="SupplierID" DataSourceID="SqlDataSource1">
<Columns>
       <asp:BoundField DataField="SupplierID" HeaderText="SupplierID" InsertVisible="False" ReadOnly="True" SortExpression="SupplierID" />
       <asp:BoundField DataField="CompanyName" HeaderText="CompanyName" SortExpression="CompanyName" />
       <asp:BoundField DataField="ContactName" HeaderText="ContactName" SortExpression="ContactName" />
       <asp:BoundField DataField="ContactTitle" HeaderText="ContactTitle" SortExpression="ContactTitle" />
       <asp:BoundField DataField="Address" HeaderText="Address" SortExpression="Address" />
       <asp:BoundField DataField="City" HeaderText="City" SortExpression="City" />
       <asp:BoundField DataField="Region" HeaderText="Region" SortExpression="Region" />
       <asp:BoundField DataField="Country" HeaderText="Country" SortExpression="Country" />
<asp:BoundField DataField="Phone" HeaderText="Phone" SortExpression="Phone" />        </Columns>
   </asp:GridView>
   <asp:SqlDataSource ID="SqlDataSource2" runat="server"></asp:SqlDataSource>
   <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$ ConnectionStrings:NorthwindConnectionString %>" ProviderName="<%$ ConnectionStrings:NorthwindConnectionString.ProviderName %>" SelectCommand="SELECT * FROM [Suppliers]"></asp:SqlDataSource>

</asp:Content>
```

Output:

_____

Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07-01-2025**

Course Name: Advanced Web Programming   **Page no: 67**

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Mayuresh Morye SYIT32

SupplierID	CompanyName	ContactName	ContactTitle	Address	City	Region	Country	Phone
1	Exotic Liquids	Charlotte Cooper	Purchasing Manager	49 Gilbert St.	London		UK	(171) 555-2222
2	New Orleans Cajun Delights	Shelley Burke	Order Administrator	P.O. Box 78934	New Orleans	LA	USA	(100) 555-4822
3	Grandma Kelly's Homestead	Regina Murphy	Sales Representative	707 Oxford Rd.	Ann Arbor	MI	USA	(313) 555-5735
4	Tokyo Traders	Yoshi Nagase	Marketing Manager	9-8 Sekimai Musashino-shi	Tokyo		Japan	(03) 3555-5011
5	Cooperativa de Quesos 'Las Cabras'	Antonio del Valle Saavedra	Export Administrator	Calle del Rosal 4	Oviedo	Asturias	Spain	(98) 598 76 54
6	Mayumi's	Mayumi Ohno	Marketing Representative	92 Setsuko Chuo-ku	Osaka		Japan	(06) 431-7877
7	Pavlova, Ltd.	Ian Devling	Marketing Manager	74 Rose St. Moonie Ponds	Melbourne	Victoria	Australia	(03) 444-2343
8	Specialty Biscuits, Ltd.	Peter Wilson	Sales Representative	29 King's Way	Manchester		UK	(161) 555-4448
9	PB Knäckebröd AB	Lars Peterson	Sales Agent	Kaloadagatan 13	Göteborg		Sweden	031-987 65 43
10	Refrescos Americanas LTDA	Carlos Diaz	Marketing Manager	Av. das Americanas 12.890	São Paulo		Brazil	(11) 555 4640

1 2 3

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2. <u>DataList:</u>

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication20._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

                  
    <asp:Label ID="Label1" runat="server" BorderStyle="Double" Text="Mayuresh Morye
SYIT32"></asp:Label>
    <br />

    <asp:DataList ID="DataList1" runat="server" DataKeyField="EmployeeID"
DataSourceID="SqlDataSource1">
<ItemTemplate>
EmployeeID:
    <asp:Label ID="EmployeeIDLabel" runat="server" Text='<%# Eval("EmployeeID") %>' />
    <br />
    LastName:
    <asp:Label ID="LastNameLabel" runat="server" Text='<%# Eval("LastName") %>' />
    <br />
    FirstName:
    <asp:Label ID="FirstNameLabel" runat="server" Text='<%# Eval("FirstName") %>' />
```

_____

Teacher's Signature

Class: <u>SYIT(NEP   )</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07-01-2025**

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```
                <br />
        Title:
            <asp:Label ID="TitleLabel" runat="server" Text='<%# Eval("Title") %>' />
            <br />
        BirthDate:
            <asp:Label ID="BirthDateLabel" runat="server" Text='<%# Eval("BirthDate") %>' />
            <br />
            HireDate:
            <asp:Label ID="HireDateLabel" runat="server" Text='<%# Eval("HireDate") %>' />
            <br />
        City:
            <asp:Label ID="CityLabel" runat="server" Text='<%# Eval("City") %>' />
            <br />
        Address:
            <asp:Label ID="AddressLabel" runat="server" Text='<%# Eval("Address") %>' />
            <br />
            PostalCode:
            <asp:Label ID="PostalCodeLabel" runat="server" Text='<%# Eval("PostalCode") %>' />
            <br />
            HomePhone:
            <asp:Label ID="HomePhoneLabel" runat="server" Text='<%# Eval("HomePhone") %>' />
            <br />
        <br />
            </ItemTemplate> </asp:DataList>
        <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
        ConnectionStrings:NorthwindConnectionString2 %>" ProviderName="<%$
        ConnectionStrings:NorthwindConnectionString2.ProviderName %>" SelectCommand="SELECT
        [EmployeeID], [LastName], [FirstName], [Title], [BirthDate], [HireDate], [City], [Address], [PostalCode],
        [HomePhone] FROM [Employees]"></asp:SqlDataSource>

        </asp:Content>
```

Output:

_____

Teacher's Signature

Class: <u>SYIT(NEP</u>   )   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07-01-2025**
Course Name: Advanced Web Programming   **Page no: 69**

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```
Application name    Home    About    Contact

                   Mayuresh Morye SYIT32
EmployeeID: 1
LastName: Davolio
FirstName: Nancy
Title: Sales Representative
BirthDate: 08-12-1948 00:00:00
HireDate: 01-05-1992 00:00:00
City: Seattle
Address: 507 - 20th Ave. E. Apt. 2A
PostalCode: 98122
HomePhone: (206) 555-9857

EmployeeID: 2
LastName: Fuller
FirstName: Andrew
Title: Vice President, Sales
BirthDate: 19-02-1952 00:00:00
HireDate: 14-08-1992 00:00:00
City: Tacoma
Address: 908 W. Capital Way
PostalCode: 98401
HomePhone: (206) 555-9482
```

3. **<u>FormView:</u>**

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master"
AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="WebApplication21._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

               
  <asp:Label ID="Label1" runat="server" BorderStyle="Double" Text="Mayuresh Morye
SYIT32"></asp:Label>
  <br />
  <asp:FormView ID="FormView1" runat="server" AllowPaging="True" DataKeyNames="EmployeeID"
DataSourceID="SqlDataSource1">      <EditItemTemplate>        EmployeeID:
      <asp:Label ID="EmployeeIDLabel1" runat="server" Text='<%# Eval("EmployeeID") %>' />
      <br />
LastName:
      <asp:TextBox ID="LastNameTextBox" runat="server" Text='<%# Bind("LastName") %>' />
      <br />
Title:
```

Class: <u>SYIT(NEP   )</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07-01-2025**

Course Name: Advanced Web Programming   **Page no: 70**

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```
            <asp:TextBox ID="TitleTextBox" runat="server" Text='<%# Bind("Title") %>' />
            <br />
            FirstName:
            <asp:TextBox ID="FirstNameTextBox" runat="server" Text='<%# Bind("FirstName") %>' />
            <br />
    BirthDate:
            <asp:TextBox ID="BirthDateTextBox" runat="server" Text='<%# Bind("BirthDate") %>' />
            <br />
    HireDate:
            <asp:TextBox ID="HireDateTextBox" runat="server" Text='<%# Bind("HireDate") %>' />
            <br />
    City:
            <asp:TextBox ID="CityTextBox" runat="server" Text='<%# Bind("City") %>' />
            <br />
    Country:
            <asp:TextBox ID="CountryTextBox" runat="server" Text='<%# Bind("Country") %>' />
            <br />
            PostalCode:
            <asp:TextBox ID="PostalCodeTextBox" runat="server" Text='<%# Bind("PostalCode") %>' />
            <br />
            HomePhone:
            <asp:TextBox ID="HomePhoneTextBox" runat="server" Text='<%# Bind("HomePhone") %>' />
            <br />
            <asp:LinkButton ID="UpdateButton" runat="server" CausesValidation="True"
CommandName="Update" Text="Update" />
             <asp:LinkButton ID="UpdateCancelButton" runat="server" CausesValidation="False"
CommandName="Cancel" Text="Cancel" />
        </EditItemTemplate>
        <InsertItemTemplate>
          LastName:
            <asp:TextBox ID="LastNameTextBox" runat="server" Text='<%# Bind("LastName") %>' />
            <br />
    Title:
            <asp:TextBox ID="TitleTextBox" runat="server" Text='<%# Bind("Title") %>' />
            <br />
    FirstName:
            <asp:TextBox ID="FirstNameTextBox" runat="server" Text='<%# Bind("FirstName") %>' />
            <br />
    BirthDate:
            <asp:TextBox ID="BirthDateTextBox" runat="server" Text='<%# Bind("BirthDate") %>' />
```

Class: <u>SYIT(NEP   )</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07-01-2025**

Course Name: Advanced Web Programming   **Page no: 71**

Practical Number: 11

```
            <br />
        HireDate:
            <asp:TextBox ID="HireDateTextBox" runat="server" Text='<%# Bind("HireDate") %>' />
            <br />
        City:
            <asp:TextBox ID="CityTextBox" runat="server" Text='<%# Bind("City") %>' />
            <br />
        Country:
            <asp:TextBox ID="CountryTextBox" runat="server" Text='<%# Bind("Country") %>' />
            <br />
            PostalCode:
            <asp:TextBox ID="PostalCodeTextBox" runat="server" Text='<%# Bind("PostalCode") %>' />
            <br />
            HomePhone:
            <asp:TextBox ID="HomePhoneTextBox" runat="server" Text='<%# Bind("HomePhone") %>' />
            <br />
            <asp:LinkButton ID="InsertButton" runat="server" CausesValidation="True"
        CommandName="Insert" Text="Insert" />
             <asp:LinkButton ID="InsertCancelButton" runat="server" CausesValidation="False"
        CommandName="Cancel" Text="Cancel" />
        </InsertItemTemplate>
        <ItemTemplate>
        EmployeeID:
            <asp:Label ID="EmployeeIDLabel" runat="server" Text='<%# Eval("EmployeeID") %>' />
            <br />
        LastName:
            <asp:Label ID="LastNameLabel" runat="server" Text='<%# Bind("LastName") %>' />
            <br />
        Title:
            <asp:Label ID="TitleLabel" runat="server" Text='<%# Bind("Title") %>' />
            <br />
        FirstName:
            <asp:Label ID="FirstNameLabel" runat="server" Text='<%# Bind("FirstName") %>' />
            <br />
        BirthDate:
            <asp:Label ID="BirthDateLabel" runat="server" Text='<%# Bind("BirthDate") %>' />
            <br />
            HireDate:
            <asp:Label ID="HireDateLabel" runat="server" Text='<%# Bind("HireDate") %>' />
```

_____

Teacher's Signature

Class: <u>SYIT(NEP   )</u>   Sem: IV   Roll No.: SYIT46   Date : 07-01-2025

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```
        <br />
City:
        <asp:Label ID="CityLabel" runat="server" Text='<%# Bind("City") %>' />
        <br />
Country:
        <asp:Label ID="CountryLabel" runat="server" Text='<%# Bind("Country") %>' />
        <br />
        PostalCode:
        <asp:Label ID="PostalCodeLabel" runat="server" Text='<%# Bind("PostalCode") %>' />
        <br />
        HomePhone:
        <asp:Label ID="HomePhoneLabel" runat="server" Text='<%# Bind("HomePhone") %>' />
        <br />

    </ItemTemplate>
  </asp:FormView>
  <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:NorthwindConnectionString %>" ProviderName="<%$
ConnectionStrings:NorthwindConnectionString.ProviderName %>" SelectCommand="SELECT
[EmployeeID], [LastName], [Title], [FirstName], [BirthDate], [HireDate], [City], [Country], [PostalCode],
[HomePhone] FROM [Employees]"></asp:SqlDataSource>

</asp:Content>
```

Output:

4. **DetailsView:**

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master"
AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="WebApplication22._Default"
%>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

             
  <asp:Label ID="Label1" runat="server" BorderStyle="Double" Text="Mayuresh Morye
SYIT32"></asp:Label>
  <br />
  <asp:DetailsView ID="DetailsView1" runat="server" AllowPaging="True"
AutoGenerateRows="False" DataKeyNames="CustomerID" DataSourceID="SqlDataSource1"
Height="50px" Width="125px" BorderStyle="Solid">
  <Fields>
    <asp:BoundField DataField="CustomerID" HeaderText="CustomerID" ReadOnly="True"
SortExpression="CustomerID" />
    <asp:BoundField DataField="CompanyName" HeaderText="CompanyName"
```

Class: SYIT(NEP   )　　　　**Sem: IV**　　　　**Roll No.: SYIT46**　　　　**Date : 07-01-2025**

Course Name: Advanced Web Programming　　　　　　　　**Page no: 74**

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```
SortExpression="CompanyName" />
    <asp:BoundField DataField="ContactName" HeaderText="ContactName"
SortExpression="ContactName" />
    <asp:BoundField DataField="ContactTitle" HeaderText="ContactTitle"
SortExpression="ContactTitle" />
    <asp:BoundField DataField="Address" HeaderText="Address" SortExpression="Address" />
    <asp:BoundField DataField="City" HeaderText="City" SortExpression="City" />
    <asp:BoundField DataField="Region" HeaderText="Region" SortExpression="Region" />
<asp:BoundField DataField="PostalCode" HeaderText="PostalCode"
SortExpression="PostalCode" />
    <asp:BoundField DataField="Country" HeaderText="Country" SortExpression="Country" />
    <asp:BoundField DataField="Phone" HeaderText="Phone" SortExpression="Phone" />
<asp:BoundField DataField="Fax" HeaderText="Fax" SortExpression="Fax" />    </Fields>
</asp:DetailsView>
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:NorthwindConnectionString %>" ProviderName="<%$
ConnectionStrings:NorthwindConnectionString.ProviderName %>" SelectCommand="SELECT *
FROM [Customers]"></asp:SqlDataSource>

</asp:Content>
```

Output:

_____

Teacher's Signature

Class: <u>SYIT(NEP   )</u>   Sem: IV   Roll No.: SYIT46   Date : 07-01-2025

Course Name: Advanced Web Programming   Page no: 75

Practical Number: 11

| Application name | Home | About | Contact |

Mayuresh Morye SYIT32

CustomerID	BOLID
CompanyName	Bólido Comidas preparadas
ContactName	Martín Sommer
ContactTitle	Owner
Address	C/ Araquil, 67
City	Madrid
Region	
PostalCode	28023
Country	Spain
Phone	(91) 555 22 82
Fax	(91) 555 91 99
12345678910...	

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Teacher's Signature

Class: <u>SYIT(NEP)</u>   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07/01/2025**

Course Name: Advance Web Programming   **Page no:**

Practical Number: 12

1. **Demonstrate the use of GridView control in asp.net.**

<u>Default.aspx</u>

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication41._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

  <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False" DataKeyNames="ProductID"
DataSourceID="SqlDataSource2" AllowPaging="True">
   <Columns>
     <asp:BoundField DataField="ProductID" HeaderText="ProductID" InsertVisible="False" ReadOnly="True"
SortExpression="ProductID" />
     <asp:BoundField DataField="ProductName" HeaderText="ProductName" SortExpression="ProductName"
/>
     <asp:BoundField DataField="SupplierID" HeaderText="SupplierID" SortExpression="SupplierID" />
     <asp:BoundField DataField="CategoryID" HeaderText="CategoryID" SortExpression="CategoryID" />
     <asp:BoundField DataField="QuantityPerUnit" HeaderText="QuantityPerUnit"
SortExpression="QuantityPerUnit" />
     <asp:BoundField DataField="UnitPrice" HeaderText="UnitPrice" SortExpression="UnitPrice" />
     <asp:BoundField DataField="UnitsInStock" HeaderText="UnitsInStock" SortExpression="UnitsInStock" />
     <asp:BoundField DataField="UnitsOnOrder" HeaderText="UnitsOnOrder" SortExpression="UnitsOnOrder"
/>
     <asp:BoundField DataField="ReorderLevel" HeaderText="ReorderLevel" SortExpression="ReorderLevel"
/>
     <asp:CheckBoxField DataField="Discontinued" HeaderText="Discontinued"
SortExpression="Discontinued" />
   </Columns>
</asp:GridView>
<asp:SqlDataSource ID="SqlDataSource2" runat="server" ConnectionString="<%$
ConnectionStrings:NorthwindConnectionString3 %>" ProviderName="<%$
ConnectionStrings:NorthwindConnectionString3.ProviderName %>" SelectCommand="SELECT [ProductID],
[ProductName], [SupplierID], [CategoryID], [QuantityPerUnit], [UnitPrice], [UnitsInStock], [UnitsOnOrder],
[ReorderLevel], [Discontinued] FROM [Products]"></asp:SqlDataSource>
<asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%$
ConnectionStrings:NorthwindConnectionString2 %>" ProviderName="<%$
ConnectionStrings:NorthwindConnectionString2.ProviderName %>" SelectCommand="SELECT [ProductID],
[ProductName], [SupplierID], [CategoryID] FROM [Products]"></asp:SqlDataSource>

</asp:Content>
```

_____

Teacher's Signature

Class: SYIT(NEP)   **Sem: IV**   **Roll No.: SYIT46**   **Date : 07/01/2025**
Course Name: Advance Web Programming   **Page no:**
Practical Number: 12

OUTPUT :

Q1) Create an XML file to store records of four persons with their name, age and addresses.

Default.asp:

```
<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Default.aspx.cs" Inherits="WebApplication11._Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

  <asp:GridView ID="GridView1" runat="server">
  </asp:GridView>

</asp:Content>
```

_____
                                                      Teacher's Signature

Default.asp.cs:

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

namespace WebApplication11
{
    public partial class _Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            XDocument xmlDoc = XDocument.Load(HttpContext.Current.Server.MapPath("XMLFile1.xml"));
            var persons = from p in xmlDoc.Root.Elements("Person")
                        where (Convert.ToInt16(p.Element("Age").Value) < 60)
                        select new
                        {
                            Name = p.Element("Name").Value,
                            Address = p.Element("Address").Value,
                            Age = p.Element("Age").Value
                        };
            GridView1.DataSource = persons;
            GridView1.DataBind();
        }
    }
}
```

XMLFile1.xml:

```xml
<?xml version="1.0" encoding="utf-8" ?>
<Persons>
  <Person>
   <Name>Yash Sawant</Name>
```

BHAVAN'S COLLEGE AUTONOMOUS, ANDHERI-WEST
PRACTICAL JOURNAL

Class: SYIT(NEP)   **Sem: IV**   **Roll No.: SYIT46**   **Date : 21/01/2025**
Course Name: Advanced Web Programming (AWP)   **Page no:**

Practical Number: 13

```xml
 <Address>Varsova</Address>
 <Age>19</Age>
</Person>
<Person>
 <Name>Mayuresh Morye</Name>
 <Address>Virar</Address>
 <Age>30</Age>
</Person>
<Person>
 <Name>Prince Yadav</Name>
 <Address>Andheri</Address>
 <Age>34</Age>
</Person>
<Person>
 <Name>Shivshankar Sahu</Name>
 <Address>Kurla</Address>
 <Age>65</Age>
</Person>
<Person>
 <Name>Kartik Yadav</Name>
 <Address>Marol Naka</Address>
 <Age>27</Age>
</Person>
</Persons>
```

Output:

Application name   Home   About   Contact

Name	Address	Age
Yash Sawant	Varsova	19
Shashank Kavlekar	Virar	30
Prince Yadav	Andheri	34
Kartik Yadav	Marol Naka	27

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_____
Teacher's Signature

Class: <u>SYIT(NEP)</u> **Sem: IV** **Roll No.: SYIT46** **Date : 21/01/2025**

Course Name: Advanced Web Programming (AWP) **Page no:**

Practical Number: 13

Q2) <u>Create asynchronous timer using AJAX</u>

WebForm1.aspx:
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="WebApplication15.WebForm1" %>


<form id="form1" runat="server">
    <asp:Label ID="Label1" runat="server" Text="Current Time: "></asp:Label>
    <asp:Label ID="Label4" runat="server" Text=" "></asp:Label>
 <asp:ScriptManager ID="ScriptManager1" runat="server">
    </asp:ScriptManager>
    <asp:Timer ID="Timer1" runat="server" OnTick="Timer1_Tick">
    </asp:Timer><br />
    <asp:Button ID="Button1" runat="server" Text="Stop" OnClick="Button1_Click" /><br />
    <asp:Label ID="Label3" runat="server" Text="Welcome to AJAX"></asp:Label>
    <asp:UpdatePanel ID="UpdatePanel1" runat="server">
    </asp:UpdatePanel>
    <asp:UpdateProgress ID="UpdateProgress1" runat="server">
    </asp:UpdateProgress>
</form>
```

WebForm1.aspx.cs:
```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication15
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Timer1_Tick(object sender, EventArgs e)
        {
            Label4.Text = DateTime.Now.ToString();
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            System.Threading.Thread.Sleep(1500);
        }
```

_____

Teacher's Signature

Class: SYIT(NEP)   **Sem: IV**   **Roll No.: SYIT46**   **Date : 21/01/2025**

Course Name: Advanced Web Programming (AWP)   **Page no:**

Practical Number: 13

```
    }
}
```

Output:

Current Time: 1/22/2025 12:06:14 AM

Stop

Welcome to AJAX