THE NEW COLLEGE (AUTONOMOUS) CHENNAI -14

P.G. DEPARTMENT OF COMPUTER SCIENCE

.NET TECHNOLOGIES LAB



I M.Sc. COMPUTER SCIENCE

(II- Semester)

Name	:	
Reg.No	:	

Subject : .NET TECHNOLOGIES LAB

Subject Code : 20MJMP203

THE NEW COLLEGE (AUTONOMOUS)

P.G. DEPARTMENT OF COMPUTER SCIENCE

Name	:				
Class	:				
Register No	:				
Subject Name	: .NET TECHNOLOGIES LAB				
Subject Code	:				
Certified to be Bonafide Record of work done in the Computer ScienceLaboratory of The New College , during the academic year 2023 – 2024 bythe above candidate.					
Professor in – char	ge Head of the Department				
Submitted for the practical Examination held on Mar / Apr 2024 inComputer					
Science Laboratory of The New College.					
Internal Examiner	External Examiner				
Place:					
Date:					

INDEX

S.NO	DATE	TITLE	PAGE NO.
1.		Date	
2.		Date And Time	
3.		Login Page	
4.		Exception Handling	
5.		File Handling	
6.		Working With Array	
7.		Validation	
8.		Tree View	
9.		Timer	
10		Fetching Data From Database	

DATE IN VARIOUS FORMATS

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace DataAndTime
class Program
static int Main()
DateTime date=new DateTime(2023,12,22);
Console.WriteLine("Some Date Formats:");
Console.WriteLine("Date and Time: {0}", date);
Console.WriteLine(date.ToString("yyyy-MM-dd"));
Console.WriteLine(date.ToString("dd-MM-yy"));
Console.WriteLine(date.ToString("M/d/yyyy"));
Console.WriteLine(date.ToString("M/d/yy"));
Console.WriteLine(date.ToString("MM/dd/yyyy"));
Console.WriteLine(date.ToString("MM/dd/yy"));
Console.WriteLine(date.ToString("yy-MM-dd"));
Console.Read();
return 0;
```

Ex.No:02 DATE AND TIME IN VARIOUS FORMATS CODING:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace DateTimeFormat
  class Program
    static void Main(string[] args)
      DateTime aDate = DateTime.Now;
      Console.WriteLine(aDate.ToString("MM/dd/yyyy"));
      Console.WriteLine(aDate.ToString("dddd, dd MMMM yyyy"));
      Console. WriteLine(aDate.ToString("dddd, dd MMMM yyyy"));
      Console.WriteLine(aDate.ToString("dddd, dd MMMM yyyy"));
      Console.WriteLine(aDate.ToString("dddd, dd MMMM yyyy"));
      Console. WriteLine(aDate. ToString("dddd, dd MMMM yyyy"));
      Console.WriteLine(aDate.ToString("dddd, dd MMMM yyyy HH:mm:ss"));
      Console.WriteLine(aDate.ToString("MM/dd/yyyy HH:mm"));
      Console.WriteLine(aDate.ToString("MM/dd/yyyy hh:mm tt"));
      Console.WriteLine(aDate.ToString("MM/dd/yyyy H:mm"));
      Console.WriteLine(aDate.ToString("MM/dd/yyyy h:mm tt"));
      Console.WriteLine(aDate.ToString("MM/dd/yyyy HH:mm:ss"));
      Console.WriteLine(aDate.ToString("MMMM dd"));
      Console.WriteLine(aDate.ToString("yyyy'-'MM'-'dd'T'HH':'mm':'ss.fffffffK"));
      Console.WriteLine(aDate.ToString("ddd, dd MMM yyy HH':'mm':'ss 'GMT'"));
      Console.WriteLine(aDate.ToString("yyyy'-'MM'-'dd'T'HH':'mm':'ss"));
      Console.WriteLine(aDate.ToString("HH:mm"));
      Console.WriteLine(aDate.ToString("hh:mm tt"));
      Console.WriteLine(aDate.ToString("H:mm"));
      Console.WriteLine(aDate.ToString("h:mm tt"));
      Console.WriteLine(aDate.ToString("HH:mm:ss"));
      Console.WriteLine(aDate.ToString("yyyy MMMM"));
      Console.ReadKey();
    } }}
```

```
03/20/2019
Wednesday, 20 March 2019
Wednesday, 20 March 2019 11:48:59
03/20/2019 11:48
```

Ex.No:03 HTML CODING:

LOGIN PAGE

```
<%(a)
      Page Language="C#"
                                AutoEventWireup="true"
                                                         CodeBehind="login
                                                                             control.aspx.cs"
Inherits="login control.login control"%>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  < div>
    </div>
    <asp:Label ID="Label1" runat="server" Text="Username"></asp:Label>
   
    <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
    <br/>>
    <br/>>
    <asp:Label ID="Label2" runat="server" Text="Password"></asp:Label>
   
    <asp:TextBox ID="TextBox2" runat="server" TextMode="Password"></asp:TextBox>
    <asp:Button ID="Button1" runat="server" OnClick="Button1 Click" Text="Submit" />
      <asp:Label ID="Label3" runat="server"></asp:Label>
    </form>
</body>
</html>
BUTTON CODING:-
using System;
using System.Collections.Generic;
using System.Ling;
using System. Web;
using System. Web. UI;
using System.Web.UI.WebControls;
namespace login control
  public partial class login control: System.Web.UI.Page
    protected void Button1 Click(object sender, EventArgs e)
      if(TextBox1.Text.Equals("asif") && (TextBox2.Text.Equals("asif7410")))
        Label3.Text = "You have successfully logged in " + TextBox1.Text;
      }else
        Label3.Text = "Username or Password is incorrect";
```

OUTPUT:		
	Username	asif
	Password	Submit
	You have si	uccessfully logged in asif

EXCEPTION HANDLING

CODING:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Exceptionhandling
  class Program
     static void Main(string[] args)
       try
         int num1, num2;
         Decimal result;
         Console.WriteLine("Divide Program you Enter Two number");
         Console.WriteLine("Enter Ist Number");
          num1 = Convert.ToInt32(Console.ReadLine());
         Console.WriteLine("Enter IInd Number");
         num2 = Convert.ToInt32(Console.ReadLine());
         result = (decimal)num1 / (decimal)num2;
         Console.WriteLine("Divide:" + result.ToString());
         Console.ReadLine();
       catch(DivideByZeroException dex)
         Console.WriteLine("You have Entered 0");
            Console.WriteLine("More Details about error:\n\n"+dex.ToString()+"\n\n");
         //goto Label;
       catch(FormatException fex)
         Console.WriteLine("Invalid Input");
         Console.WriteLine("More Details about
       creat:\n''+fex.ToString()+"\n'');
         //goto Label;
       catch(Exception ex)
         Console. WriteLine("Other exception raised" + \text{ ex.ToString}() + \text{"} \text{n}");
         //goto Label;
```

```
Divide Program you Enter Two number
Enter Ist Number

Enter IInd Number

10
Divide:0.5

Finally block:for Continue Press Enter and for exit.press ctrl+c

Press any key to continue . . .
```

FILE HANDLING

```
using System;
using System.IO;
namespace myapplication
{
    class Program
    {
        static void Main(string[] args)
          {
             string writeText = ("hello world!");
            File.WriteAllText("filename.txt", writeText);
            string readText = File.ReadAllText("filename.txt");
            Console.WriteLine(readText);
            Console.ReadLine();
        }
    }
}
```



WORKING WITH ARRAY LIST

CODING:

```
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace AccessArray {
  class program{
    static void Main (string [] args) {
        int [] numbers = {1,2,3};
        Console.WriteLIne("Element in first index :" +numbers[0]);
        Console.WriteLine("Element in Third index: "+ numbers[1]);
        Console.WriteLine("Element in Third index: "+ numbers[2]);
        Console.ReadLine();
}
```

OUTPUT:

Element in first index: 1

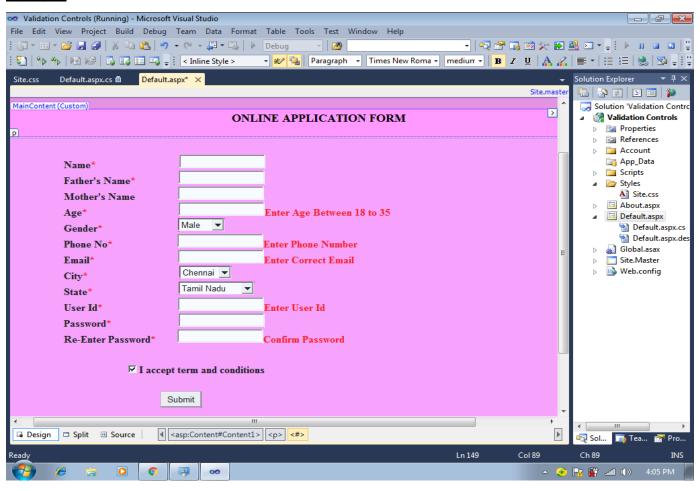
Element in Second index: 2

Element in Third index: 3

VALIDATION CONTROLS

DEFAULT.ASPX

Design:



CODING:

<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.master"

AutoEventWireup="true"

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

<asp:Content ID="HeaderContent" runat="server" ContentPlaceHolderID="HeadContent">

</asp:Content>

<asp:Content ID="Content1" runat="server" contentplaceholderid="MainContent">

style="font-family: 'Times New Roman', Times, serif; font-size: large; font-weight: bold; color: #000000;"

title="APPLICATION FORM">

ONLINE APPLICATION FORM

font-weight: bold; color: #000000;">
br >

style="font-family: 'Times New Roman', Times, serif; font-size: medium; font-style: normal; font-weight: bold; color: #000000" />

```
Name<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
         ControlToValidate="TextBox1" ErrorMessage="Enter Name" Font-Size="Medium"
         ForeColor="Red">*</asp:RequiredFieldValidator>
     <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      <br/>br/>
Father's Name<asp:RequiredFieldValidator ID="RequiredFieldValidator2"
         runat="server" ControlToValidate="TextBox2" ErrorMessage="Enter Father Name"
         Font-Size="Medium" ForeColor="Red">*</asp:RequiredFieldValidator>
     <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
Mother
       <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
Age<asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server"
         ControlToValidate="TextBox4" ErrorMessage="Enter Age" Font-Size="Medium"
         ForeColor="Red">*</asp:RequiredFieldValidator>
             <asp:TextBox ID="TextBox4" runat="server"></asp:TextBox>
    <asp:RangeValidator ID="RangeValidator1" runat="server"</pre>
         ControlToValidate="TextBox4" ErrorMessage="Enter Age Between 18 to 35"
         ForeColor="Red" MaximumValue="35" MinimumValue="18">Enter Age Between 18 to
35</asp:RangeValidator><br/>
   Gender<asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server"
         ControlToValidate="DropDownList1" ErrorMessage="Select Gender"
         Font-Size="Medium" ForeColor="Red">*</asp:RequiredFieldValidator>
      <asp:DropDownList ID="DropDownList1" runat="server">
         <asp:ListItem>Male</asp:ListItem>
         <asp:ListItem>Female</asp:ListItem>
      </asp:DropDownList>
Phone No<asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server"
         ControlToValidate="TextBox5" ErrorMessage="Enter Phone Number"
         Font-Size="Medium" ForeColor="Red">*</asp:RequiredFieldValidator>
         <asp:TextBox ID="TextBox5" runat="server"></asp:TextBox>
      <asp:RegularExpressionValidator1" runat="server"</pre>
         ControlToValidate="TextBox5" ErrorMessage="Enter Phone Number" ForeColor="Red"
         ValidationExpression="[0-9]{10}">Enter PhoneNumber</asp:RegularExpressionValidator>
Email<asp:RequiredFieldValidator ID="RequiredFieldValidator6" runat="server"
         ControlToValidate="TextBox6" ErrorMessage="Enter Email Id" Font-Size="Medium"
         ForeColor="Red">*</asp:RequiredFieldValidator>
       <asp:TextBox ID="TextBox6" runat="server"></asp:TextBox>
       <asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server"</p>
         ControlToValidate="TextBox6" ErrorMessage="Enter Correct Email" ForeColor="Red"
         Validation Expression = "\w+([-+.']\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*">Enter Correct
Email</asp:RegularExpressionValidator><br/>
City<asp:RequiredFieldValidator ID="RequiredFieldValidator7" runat="server"
         ControlToValidate="DropDownList2" ErrorMessage="Select City" Font-Size="Medium"
         ForeColor="Red">*</asp:RequiredFieldValidator>
<asp:DropDownList ID="DropDownList2" runat="server">
         <asp:ListItem>Chennai</asp:ListItem>
         <asp:ListItem>Vellore</asp:ListItem>
         <asp:ListItem>Banglore</asp:ListItem>
         <asp:ListItem>kadapa</asp:ListItem>
```

```
</asp:DropDownList><br/>
State<asp:RequiredFieldValidator ID="RequiredFieldValidator8" runat="server"
         ControlToValidate="DropDownList3" ErrorMessage="Select State"
         Font-Size="Medium" ForeColor="Red">*</asp:RequiredFieldValidator>
    <asp:DropDownList ID="DropDownList3" runat="server">
         <asp:ListItem>Tamil Nadu</asp:ListItem>
         <asp:ListItem>Karnataka</asp:ListItem>
         <asp:ListItem>Andra Pradesh</asp:ListItem>
      </asp:DropDownList><br/>
User Id<asp:RequiredFieldValidator ID="RequiredFieldValidator11" runat="server"
         ControlToValidate="TextBox9" ErrorMessage="Enter User Id" Font-Size="Medium"
         ForeColor="Red">*</asp:RequiredFieldValidator>
      <asp:TextBox ID="TextBox9" runat="server"></asp:TextBox>
      <asp:CustomValidator ID="CustomValidator1" runat="server"</pre>
         ControlToValidate="TextBox9" ErrorMessage="Enter User Id" ForeColor="Red"
         onservervalidate="CustomValidator1 ServerValidate"></asp:CustomValidator><br/>>
  Password<asp:RequiredFieldValidator
      ID="RequiredFieldValidator9" runat="server" ControlToValidate="TextBox7"
      ErrorMessage="Enter Password" Font-Size="Medium"
ForeColor="Red">*</asp:RequiredFieldValidator>
           <asp:TextBox ID="TextBox7" runat="server" TextMode="Password">
</asp:TextBox><br/>
Re-Enter Password<asp:RequiredFieldValidator ID="RequiredFieldValidator10"
      runat="server" ControlToValidate="TextBox8" ErrorMessage="Confirm Password"
      Font-Size="Medium" ForeColor="Red">*</asp:RequiredFieldValidator>
      <asp:TextBox ID="TextBox8" runat="server" TextMode="Password"></asp:TextBox>
      <asp:CompareValidator ID="CompareValidator1" runat="server"</pre>
      ControlToCompare="TextBox7" ControlToValidate="TextBox8"
      ErrorMessage="Pasword does not match"ForeColor="Red">Confirm
Password</asp:CompareValidator><br/>
<asp:CheckBox ID="CheckBox1" runat="server"</pre>
       Text="I accept term and conditions" AutoPostBack="True" Checked="True" /><br />
<asp:Button ID="Button1" runat="server" Text="Submit" onclick="Button1 Click" /><br/>
<asp:Label ID="Label1" runat="server"></asp:Label><br/>>
</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 Validation Controls
  public partial class  Default : System.Web.UI.Page
    protected void Page Load(object sender, EventArgs e)
    protected void CustomValidator1_ServerValidate(object source, ServerValidateEventArgs args)
       if (args.Value.Length == 10)
         args.IsValid = true;
       else
         args.IsValid = false;
    protected void Button1_Click(object sender, EventArgs e)
       if (CheckBox1.Checked == true)
         Label1.Text="Updated Successfully";
```

TREE VIEW CONTROL

HTML CODING:-

```
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
        <asp:TreeView ID="TreeView1" runat="server" ImageSet="Arrows"</pre>
OnSelectedNodeChanged="TreeView1 SelectedNodeChanged">
      <HoverNodeStyle BackColor="#FF99FF" Font-Bold="True" Font-Names="Cambria" Font-</p>
Size="X-Large" Font-Underline="False" ForeColor="Red" />
       <LeafNodeStyle BackColor="#333300" Font-Bold="True" Font-Names="Courier New" Font-</p>
Size="Large" ForeColor="#FFCCFF" />
      <Nodes>
       <asp:TreeNode Text="Home" NavigateUrl="~/Home.aspx" Target=" blank"/>
           <asp:TreeNode Text="Employee" NavigateUrl="~/Employee.aspx" Target=" blank">
            <asp:TreeNode Text="Upload Resume" NavigateUrl="~/Upload Resume.aspx"
Target=" blank"/>
            <asp:TreeNode Text="View Resume" NavigateUrl="~/View Resume.aspx"
Target="_blank" />
          </asp:TreeNode>
           <asp:TreeNode Text="Admin" NavigateUrl="~/Admin.aspx" Target=" blank">
             <asp:TreeNode Text="Add User" NavigateUrl="~/Add User.aspx" Target=" blank" />
             <asp:TreeNode Text="Edit User" NavigateUrl="~/Edit User.aspx" Target=" blank" />
             <asp:TreeNode Text="View User" NavigateUrl="~/View User.aspx" Target=" blank"</p>
/>
           </asp:TreeNode>
         </Nodes>
      <NodeStyle Font-Names="Tahoma" Font-Size="10pt" ForeColor="Black"
HorizontalPadding="5px" NodeSpacing="0px" VerticalPadding="0px" />
       <ParentNodeStyle Font-Bold="False" />
      <RootNodeStyle BackColor="#6699FF" Font-Bold="True" Font-Italic="False" Font-</p>
Names="Times New Roman" Font-Size="X-Large" ForeColor="#CC00CC" />
      <SelectedNodeStyle Font-Underline="True" ForeColor="#5555DD"</pre>
HorizontalPadding="0px" VerticalPadding="0px" />
    </asp:TreeView>
  </form>
</body>
</html>
```

- ▶ Home
- **Employee**
 - Upload Resume
 - ▶ View Resume
- **▼** Admin
 - Add User
 - Edit User
 - View User

TIMER

CODING:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApplication2
  public partial class Form1 : Form
    int val;
    public Form1()
       InitializeComponent();
    private void Form1 Load(object sender, EventArgs e)
    private void timer1 Tick(object sender, EventArgs e)
       int a = val++;
       textBox1.Text = a.ToString();
    private void button1 Click(object sender, EventArgs e)
       timer1.Start();
    private void button2 Click(object sender, EventArgs e)
       timer1.Stop();
```

