DEPARTMENTOF COMPUTER SCIENCE
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XAI506A-.NETTECHNOLOGIESLABORATORY

B.SC AI (III YEAR–V SEM)

(2022-2024)

Class Incharge Signature

: HODSignature

:

Dean Signature

: DeanAcademicSignature

:

DEPARTMENT OF COMPUTER SCIENCE

DEPARTMENTVISION	
To be a leading department in the field of software development and digital design that offers the software education with the State-of-the-art skills. The Graduates will be recognized as globally competent by their dynamic work and produce valuable digital solutions for the society.	
DEPARTMENTMISSION	
DM1	Toconstructthesoftwarerelatedtechnicalskillsamongthestudents.
DM2	Topracticethecutting-edgetechnologiesinthevariousareasofdigitaldesign and software development.
DM3	Tocontributetowardsthebettermentofthesocietybyproducingenhanced softwaresolutionsthroughresearch.
DM4	Togeneratethespiritofinquiry,teamwork,noveltyandprofessionalism among the students.

MappingofUniversityMission(UM)andDepartmentMission(DM)

	DM1	DM2	DM3	DM4	Total
UM1	2	3	1	0	**6**
UM2	1	2	0	2	**5**
UM3	1	1	3	0	**5**
UM4	3	1	1	1	**6**
UM5	0	0	2	3	**5**

1-Low 2-Medium 3-High

PROGRAMMEEDUCATIONALOBJECTIVES(PEO)

Based on the mission of the department,the programme educational objectiveis formulatedas The B.Sc. Computer Science dedicated to produce graduates who have ability to

PEO1	**evolve as globally proficient computer professionals by giving enrichedperformanceinproblemsolving,analysisandsynthesisfor computer science related issues..**
PEO2	exercisewithcontemporarytoolsandtechnologiestoprovideaneffective userfriendlyinterfaceforthereal timesocialconcerns.
PEO3	communicate effectivelyinamultidisciplinaryteamandmanagetheteam members through the acquired leadership skills to achieve the targetin time.
PEO4	handle the customersandstakeholderseffectivelywiththeawareness of humanvaluesandethicalconcerns.
PEO5	pursuelifelonglearningthroughthecutting-edgeLearningManagement Systemsandthussatisfytheup-to-dateindustryexpectations.

MappingofProgramEducationalObjectives(PEOs)withDepartmentMission(DM)

B.Sc.(CS)	PEO1	PEO2	PEO3	PEO4	Total
DM1	3	2	0	0	**5**
DM2	2	2	1	1	**6**
DM3	1	2	1	1	**5**
DM4	0	1	3	1	**5**

1- Low 2–Medium 3-High

PROGRAMMEOUTCOME(PO)

At the time of graduation, competency of the student is measured through the attainment of programme outcomes. The quantification of programme outcomes attainment is measured through the assessment of established course outcomes for each course.

GraduatesoftheB.Sc.ComputerScienceprogrammewillhaveattainedtheabilityto

PROGRAMMEOUTCOMES	
PO1	identify and analyzethe acquainted or unacquainted real time issues and afford solution using the necessary computing, mathematical and basic science skill set.

PO2	design and develop algorithms for providingan appropriate solution to gratify the industrial and social needs.

PO3	expressideasandthoughtseffectivelytotheteammembers and customers through written and oral communication.
PO4	workjointlywithdifferentteammembers inordertocompletethe agreed work in time.
PO5	inspire and guidetheteam membersusing management skillsto achieve the target in an efficient and smooth way.
PO6	providearemarkableimpactonthesocietybycontributingresolutionsto social issues with the awareness of ethical responsibility by discriminating ethical&unethical behaviors and understanding human, professional values& responsibilities.
PO7	utilize computer literacy in the learning and working places and self- adapt with the changing environment by participating in learning activities throughout the life.
PROGRAMMMESPECIFICOUTCOME	
PSO1	provide the professional user friendly interface with the help of state-of-the-art tools and technologies.
PSO2	designtheinteractive&responsivewebbasedandmobileapplications.

LearningObjectivesandCourseOutcomes

LearningObjectives:

Thiscourseaimsat

- facilitating thestudentto understand thevariousconcepts and functionalities of Database Management Systems, the method and model to store data.
- Howtomanipulatethroughquerylanguages,theeffectivedesigningofrelational database .
- Howthesystemmanagestheconcurrentusageofdatainmultiuser environment.

LISTOFEXPERIMENTS

Ex.No:1 WORKINGWITHCONSOLEAPPLICATIONS

AIM

TounderstandaboutbasicsofC#andexecutesimplec#programsto performthe followingactions: (a).Create simple Console Application Program to display a text message.
(b).Takingnonnumericaldatafromkeyboardinto ConsoleApplication. (
c).Taking numerical data in Console Application

ALGORITHM

Step1:OpenVisualStudioExpress edition2010
Step2:ClickFileNewproject Select C#underinstalledtabandselect consoleapplication Step 3:
Give name for your application and click OK
Step4:Giveanyclassnameanddeclarevariablesandwrite methods Step 5:
Create objects for classes to execute methods
Step6:Click save andclickrunbuttonforexecution

PROGRAM:

(a).CreatesimpleConsoleApplicationProgramtodisplayatext message.

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

namespacelab1
{
   classProgram
   {
      staticvoidMain(string[]args)
      {
         Console.WriteLine("EverythingHappenforaReason");

         Console.ReadKey();

      }
   }
}
```

OUTPUT:

(b).Takingnonnumericaldatafromkeyboard intoConsoleApplication.

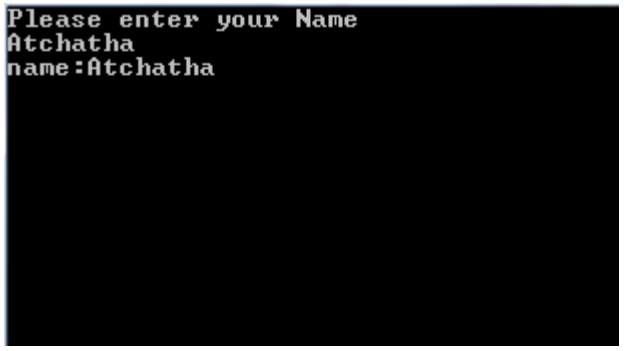
PROGRAM:

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

namespaceConsoleApplication2
```

```
{
    classProgram
```

```
    {
        staticvoidMain(string[]args)
        {
            stringname="";
            Console.WriteLine("PleaseenteryourName");
            name = Console.ReadLine();
            Console.WriteLine("name:"+ name);
            Console.ReadKey();
        }
    }
}
```

OUTPUT:

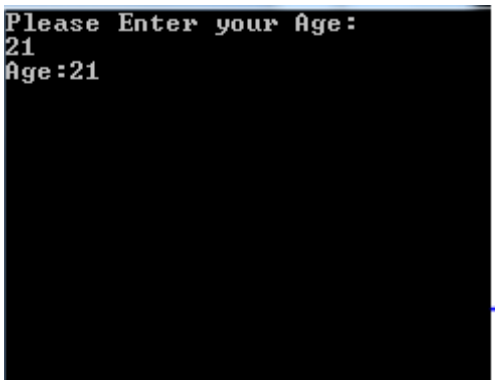


(c).TakingnumericaldatainConsoleApplication

PROGRAM:

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

namespaceConsoleApplication3
{
    classProgram
    {
        staticvoidMain(string[]args)
        {
            intage=0;
            Console.WriteLine("PleaseEnteryourAge:"); age
            = Convert.ToInt16(Console.ReadLine());
            Console.WriteLine("Age:"+ age);
            Console.ReadKey();
        }
    }
}
```

OUTPUT:



RESULT:

ThustounderstandaboutbasicsofC#andexecutesimple c#programshasbeen verified

Ex.No:2 ConsoleApplication using conditionalandLoopingstatements

AIM:

Tounderstandabout basicsofC# andexecutesimplec#programsto performthefollowingactions:

(a) Calculatethequadrantforthecoordinatesusingif..else…ladder

(b) Checkwhetherthealphabetisavowelornotusingswitch..case…

(c) Tounderstandaboutfor..eachloopandstrings

ALGORITHM:

Step1:OpenVisualStudioExpress edition2010

Step2:ClickFileNewproject Select C#underinstalledtabandselect consoleapplication Step 3:
Give name for your application and click OK

Step4:Giveanyclassnameanddeclarevariablesandwrite methods Step 5:
Create objects for classes to execute methods

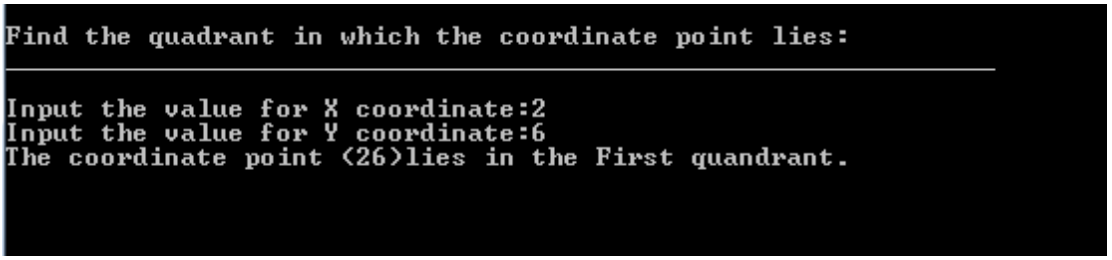
Step6:Click save andclickrunbuttonforexecution

PROGRAM CODING:

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

namespaceConsoleApplication4
{
   classProgram
   {
      staticvoidMain(string[]args)
      {
         int co1, co2;
         Console.Write("Findthequadrant inwhichthecoordinatepoint lies:\n");
         Console.Write("_
         Console.Write("\n\n");
         Console.Write("InputthevalueforX coordinate:");
         co1 = Convert.ToInt32(
```

```
        Console.
        ReadLin                                          ");
        e());
        Console.
        Write("I
        nputthev
        alueforY
        coordina
        te:");
        co2 =
        Convert.
        ToInt32(
        Console.
        ReadLin
        e());
        if(co1>0&&co2>0)
           Console.Write("Thecoordinatepoint
        ({0}{1})liesintheFirst
        quandrant.\n\n",co1,co2); else if (co1 < 0 &&
        co2 > 0)
           Console.Write("Thecoordinatepoint({0}{1})
        liesinthesecondquandrant.\n\n",co1,co2); else if
        (co1 < 0 && co2 < 0)
           Console.Write("Thecoordinatepoint({0}{1})
        liesintheThirdquandrant.\n\n",co1,co2); else if
        (co1 > 0 && co2 < 0)
           Console.Write("Thecoordinatepoint({0}{1})
        liesintheFourthquandrant.\n\n",co1,co2); else if
        (co1 == 0 && co2 == 0)
           Console.Write("thecoordinatepoint
        ({0}{1})liesattheorigin.\n\n",co1,co2);
        Console.ReadKey();
    }

    }
}
```

OUTPUT:



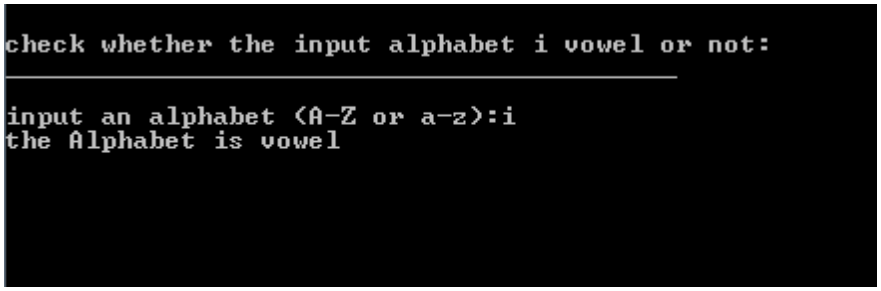
B) Program:

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

namespaceConsoleApplication5
{
   classProgram
   {
      staticvoidMain(string[]args)
      {
         charch;
         Console.Write("\n\n");
         Console.Write("check whether the input alphabet i vowel or not:\n");
         Console.Write("_____
         "); Console.Write("\n\n");
         Console.Write("inputanalphabet(A-Zora-z):");
         ch=Convert.ToChar(Console.ReadLine().ToLower()); int
         i = ch;
         if(i>=48&&i<=57)
         {
            Console.Write("YouenteredanumberPlaeenteranAlphabet.");
         }
         else
         {
            switch(ch)
            {
               case'a':
                  Console.WriteLine("theAlphabetisvowel");
                  break;
               case'i':
                  Console.WriteLine("theAlphabetisvowel");
                  break;
               case'o':
                  Console.WriteLine("theAlphabetisvowel");
                  break;
               case'u':
                  Console.WriteLine("theAlphabetisvowel");
                  break;
               case'e':
                  Console.WriteLine("theAlphabetisvowel");
                  break;
```

```
default:
    Console.WriteLine("TheAlphabetisconsonant"); break;
```

```
            }
            Console.ReadKey();
        }
    }
  }
}
```

Output:

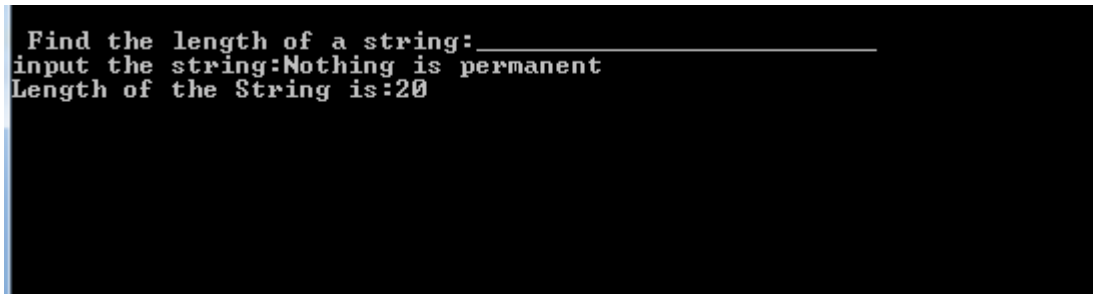


2.c.Stringlenght

Program:

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

namespaceConsoleApplication6
{
  classProgram
  {
    staticvoidMain(string[]args)
    {
      stringstr;
      intlength=0;
      Console.Write("\n\n Find the length of a string:");
      Console.Write("_____\n");
      Console.Write("input the string:");
      str=Console.ReadLine();
      foreach (char chr in str)
      {
        length+= 1;
      }
      Console.Write("LengthoftheStriongis:{0}\n\n",length);
      Console.ReadKey();



    }
  }
}
```

Output:



Result:

ThustounderstandaboutbasicsofC#andexecutesimplec#programshasbeen verified

Ex.No:3 Simplecalculatorprogramusing C#.Netwindows Application

AIM

Tobuildsimplecalculatorthatperformsaddition,subtraction, multiplicationanddivisionusingc#.Net windows application

ALGORITHM:

1. CreateanewC#WindowsForms ApplicationnamedMyCalculator.Namethe formclassandthe associated file **Calculator**. Save the solution.

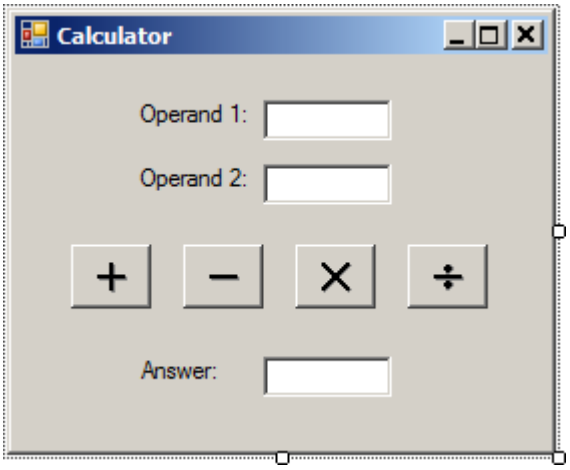
2. Designtheformwindowcontrols(fromtoolbox)forthefourarithmeticoperations

3. Settheproperties ofeachcontrol

4. Trapthe**Click**eventforeachofthefourbuttonsthatspecifymathoperations.

5. Ineachhandler,writecodeto convertthestringdataineachtextboxto afloatingpoint value. Perform the appropriate math operation for the button.

6. Finally,placetheresult back inthetextboxthat holdstheanswer.Compileandrunthe program.



FORM DESIGN:

PROGRAM CODING:

a)SImplecalculatorprogramusingC#.netwindowformapplication.

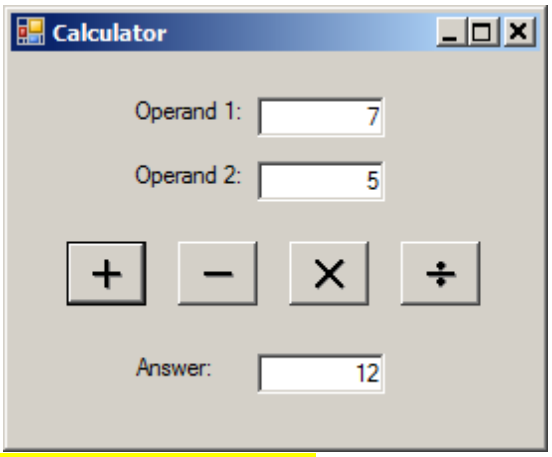
```
usingSystem;
usingSystem.Collections.Generic;
using System.ComponentModel;
using System.Data;
```

```
usingSystem.Drawing;
using System.Linq;
using System.Text;
usingSystem.Windows.Forms;

namespaceWindowsFormsApplication1
{
   publicpartialclassForm1 : Form
   {
      publicForm1()
      {
         InitializeComponent();
      }

      privatevoidForm1_Load(objectsender,EventArgse)
      {

      }

      privatevoidbutton1_Click(objectsender,EventArgse)
      {
         var    a=Convert.ToInt32(textBox1.Text);
         varb=Convert.ToInt32(textBox2.Text);
         var c=a+b;
         textBox3.Text= c.ToString();

      }

      privatevoidbutton2_Click(objectsender,EventArgse)
      {
         var    a=Convert.ToInt32(textBox1.Text);
         varb=Convert.ToInt32(textBox2.Text);
         var c = a - b;
         textBox3.Text= c.ToString();


      }

      privatevoidbutton3_Click(objectsender,EventArgse)
      {
         var    a=Convert.ToInt32(textBox1.Text);
         varb=Convert.ToInt32(textBox2.Text);
         var c = a * b;
         textBox3.Text= c.ToString();


      }

      privatevoidbutton4_Click(objectsender,EventArgse)
      {
         var    a=Convert.ToInt32(textBox1.Text);
         varb=Convert.ToInt32(textBox2.Text);
         var c = a % b;
         textBox3.Text= c.ToString();
```

}

```
    }
}
```

OUTPUT:



B)USINGCHECKBOX

```
usingSystem;
usingSystem.Collections.Generic;
using System.ComponentModel;
using System.Data;
usingSystem.Drawing;
using System.Linq;
using System.Text;
usingSystem.Windows.Forms;

namespaceWindowsFormsApplication1
{
   publicpartialclassForm1 : Form
   {
      publicForm1()
      {
         InitializeComponent();
      }

      privatevoidcheckBox1_CheckedChanged(objectsender,EventArgse)
      {
         label1.Font=newFont(label1.Font, FontStyle.Bold);
      }

      privatevoidcheckBox2_CheckedChanged(objectsender,EventArgse)
      {
         label1.Font=newFont(label1.Font,FontStyle.Italic);
      }
   }
}
```

RESULT:

Thustobuildc#. Netwindowsapplicationandaccessvariouscontrolshasbeenverified.

Ex.No:4 WorkingwithvariousControlssuchastimer, calendar, etc.,

AIM:

TocreateDateTimePickercontroltodisplaycurrentdateandtimeusing c#.netwindowformapplication.

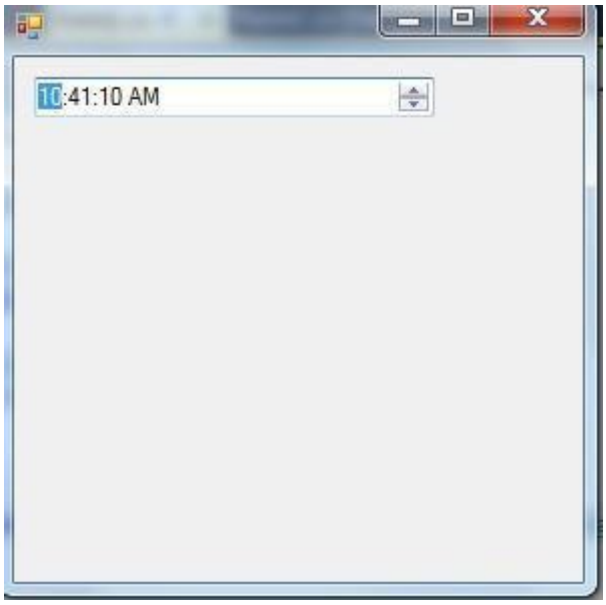
ALGORITHM:

1. Createanewproject->WindowsApplication->Name->ok
2. Designtheformwindowcontrols(fromtoolbox)DraganddropDateTimePickercontrol.
3. Setthe properties ofthe control
4. Writethecodingtodisplaysystemdateand timein formload event.
5. FinallyCompileandruntheprogram.

PROGRAM CODING:

```
usingSystem;
usingSystem.Collections.Generic;
using System.ComponentModel;
using System.Data;
usingSystem.Drawing;
using System.Linq;
using System.Text;
usingSystem.Windows.Forms;

namespaceWindowsFormsApplication1
{
   publicpartialclassForm1 : Form
   {
      publicForm1()
      {
         InitializeComponent();
      }

      privateDateTimePickertimePicker;
      privatevoidform1_load(object sender,EventArgse)
      {
         timePicker = new DateTimePicker();
         timePicker.Format=DateTimePickerFormat.Time;
         timePicker.ShowUpDown =true; timePicker.Width
         = 100;Controls.Add(timePicker);
      }
      [STAThread]
      staticvoidmain()
      {
         Application.EnableVisualStyles();
         Application.Run(new Form1());
      }
   }
}
```

Output



Result:

Thustobuildc#. Net windowsapplicationandusingDateTimePickercontrolshasbeenverified.

Ex.No:5 AccessingDatawith ADO.NET

AIM:

TocreateC#.netconsoleApplicationtoconnectMsAccessdatabasetodisplaythetablevalues using OleDbConncetion object.

ALGORITHM:

1. Createanewproject->ConsoleApplication->Name->ok
1. Toselecttoolsmenu- >connect todatabase
2. Select databaseandselect dataset,clicknext,clicknewconnectionandclickchangebuttonand select Microsoft Ms Access data source -> ok button
3. ClickbrowsebuttonandselectNorthwindandselectopenbutton
4. ClickTestconnectionbuttonandclickokthenSelectNext->Yesbutton
5. Double-clickTablesfoldertoviewthe listoftablesavailableforthenorthwinddatabase
6. todisplayemployee tableinthewindowsform

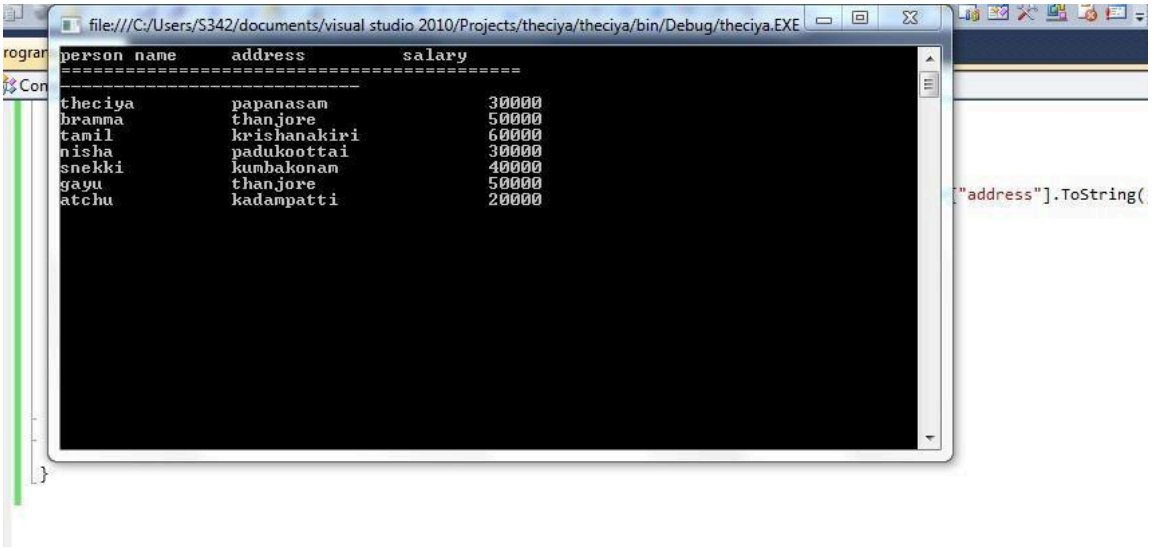
POGRAMCODING:

```
usingSystem;
usingSystem.Collections.Generic;
using System.Linq;
usingSystem.Text;
usingSystem.Data.OleDb;


namespaceConsoleApplication19
{
  classProgram
  {
    staticvoidMain(string[]args)
    {
      stringconnectionstring="Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\\Users\\S342\\Documents\\theciyasiva.accdb";
      OleDbConnectionconn=newOleDbConnection(connectionstring);
      string sql = "select name,address,salary from employee";
      OleDbCommand cmd = new OleDbCommand(sql, conn);


      Console.WriteLine("person name\taddress\t\tsalary");
      Console.WriteLine("=========================================");

      try
      {
        conn.Open();
        using(OleDbDataReaderreader=cmd.ExecuteReader())
        {
          Console.WriteLine("                              ");
          while(reader.Read())

            Console.WriteLine("{0}{1}{2}",reader["name"].ToString()+"\t\t",
```

```
reader["address"].ToString() + "\t\t", reader["salary"].ToString());
                }
```

```
        }
        catch(Exceptionex)
        {
           Console.WriteLine(ex.Message);
        }
        Console.ReadKey()
        ; conn.Close();
    }
  }

}
```

Output:



RESULT:

Thustobuildc#. Net windowsapplicationandMsaccessdatabaseconnectionhasbeen verified.

Ex.No:6 InsertUpdateDeleteSelectSearchOperationUsingOledbConnection

AIM:

TocreateC#.netwindowformapplication-toinsert, update,deleteandselectoperationin OleDbConnection object.

ALGORITHM:

2. Createanewproject->WindowsApplication->Name->ok
3. Designyourformwithnecessarylabelsandpictures
4. Fromtoolbox,select“DatagridView”controlandplaceitinform
5. Select databaseandselect dataset,clicknext,clicknewconnectionand clickchangebuttonand select Microsoft Ms Access data source -> ok button
6. ClickTestconnectionbuttonandclickok
7. Runthe application
8. resultwillbedisplayedontheform.

PROGRAM CODING:

```
usingSystem;
usingSystem.Collections.Generic;
using System.ComponentModel;
using System.Data;
usingSystem.Drawing;
using System.Linq;
using System.Text;
usingSystem.Windows.Forms;
using System.Data.OleDb;

namespacethecu
{
  publicpartialclassForm1 : Form
  {
    intcount=0;
    OleDbConnectionconn=newOleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=C:\\Users\\S342\\Desktop\\tamil.accdb");

    publicForm1()
    {
      InitializeComponent();
    }

    privatevoidbutton1_Click(objectsender,EventArgse)
    {

      conn.Open();
      OleDbCommandCmd=conn.CreateCommand();
      Cmd.CommandType=CommandType.Text;
      Cmd.CommandText="insertintostudentvalues('"+textBox1.Text+"','"+textBox2.Text+"')";
```

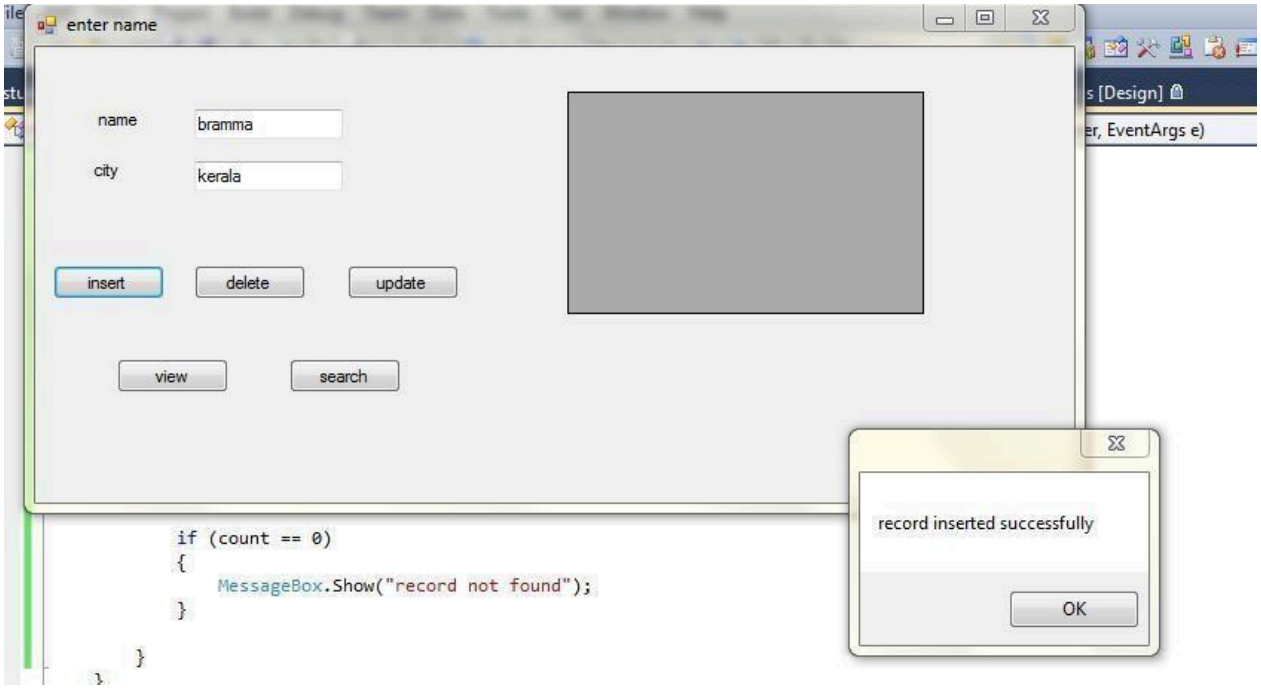
```
Cmd.ExecuteNonQuery();
```

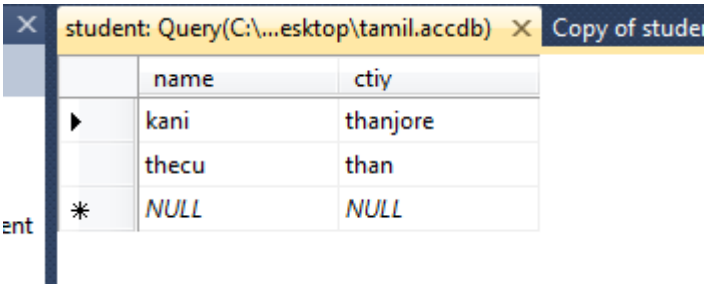
```
        conn.Close();
        MessageBox.Show("recordinsertedsuccessfully");

    }

    privatevoidlabel1_Click(object sender,EventArgse)
    {

    }

    privatevoidbutton4_Click(objectsender,EventArgse)
    {
        conn.Open();
        OleDbCommandCmd=conn.CreateCommand();
        Cmd.CommandType = CommandType.Text;
        Cmd.CommandText = "select * from student";
        Cmd.ExecuteNonQuery();
        conn.Close();
        DataTabledt=newDataTable();
        OleDbDataAdapterda=newOleDbDataAdapter(Cmd);
        da.Fill(dt);
        dataGridView1.DataSource=dt;
        MessageBox.Show("recordviewedsuccessfully");

    }

    privatevoidbutton2_Click(objectsender,EventArgse)
    {
        conn.Open();
        OleDbCommandCmd=conn.CreateCommand();
        Cmd.CommandType = CommandType.Text;
        Cmd.CommandText="deletefromstudentwherename='"+textBox1.Text+"'"; Cmd.ExecuteNonQuery();
        conn.Close();
        MessageBox.Show("recorddeletedsuccessfully");

    }

    privatevoidbutton3_Click(objectsender,EventArgse)
    {
        conn.Open();
        OleDbCommandCmd=conn.CreateCommand();
        Cmd.CommandType = CommandType.Text;
        Cmd.CommandText ="updatestudent set name='"+textBox2.Text +"'wherename='"+
textBox1.Text + "'";
        Cmd.ExecuteNonQuery();
        conn.Close();
        MessageBox.Show("recordupdated successfully");
    }

    privatevoidbutton5_Click(objectsender,EventArgse)
    {
        count = 0;
        conn.Open();
        OleDbCommandCmd=conn.CreateCommand();
        Cmd.CommandType = CommandType.Text;
```

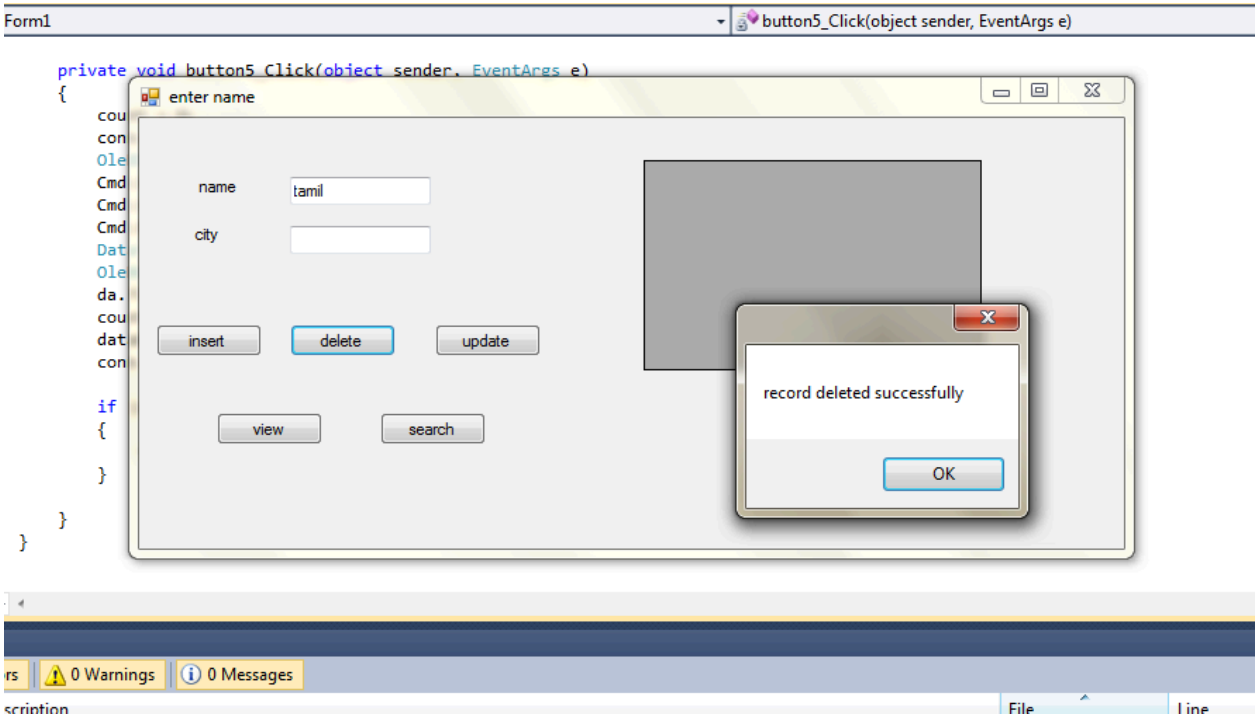
```
Cmd.CommandText="select*fromstudentwherename='"+textBox1.Text+"'";
```

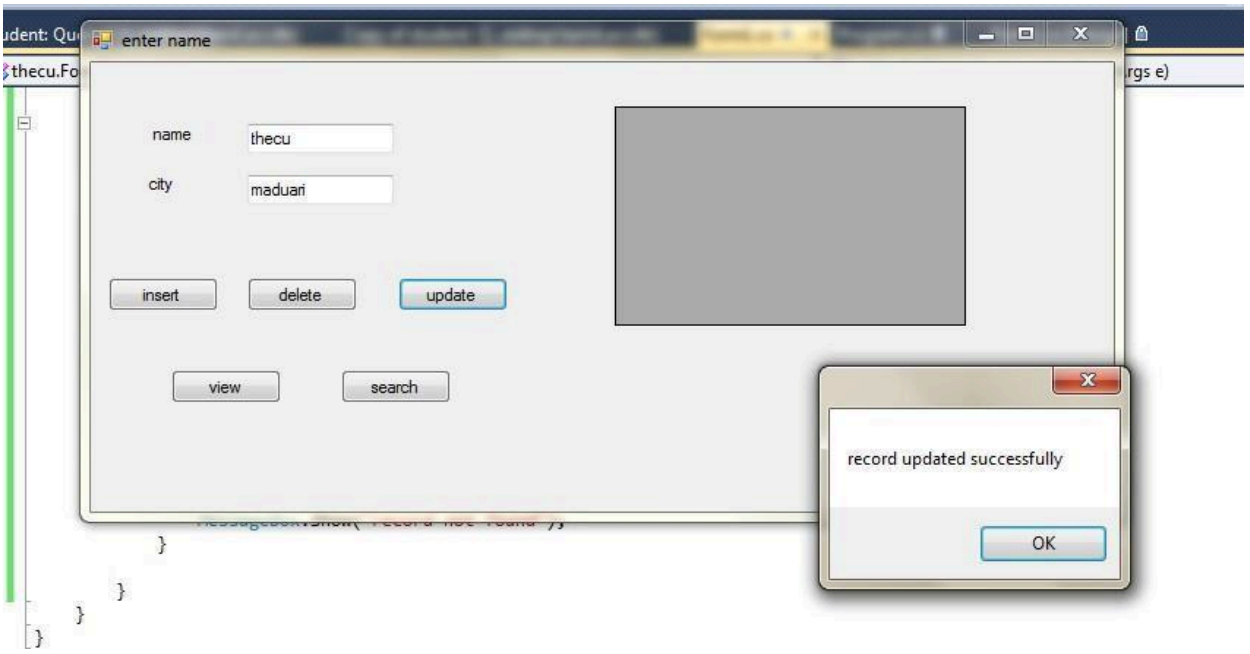
```
            Cmd.ExecuteNonQuery();
            DataTabledt=newDataTable();
            OleDbDataAdapterda=newOleDbDataAdapter(Cmd);
            da.Fill(dt);
            count=Convert.ToInt32(dt.Rows.Count.ToString());
            dataGridView1.DataSource = dt;
            conn.Close();

            if(count==0)
            {
               MessageBox.Show("recordnot found");
            }

        }
    }
}
```

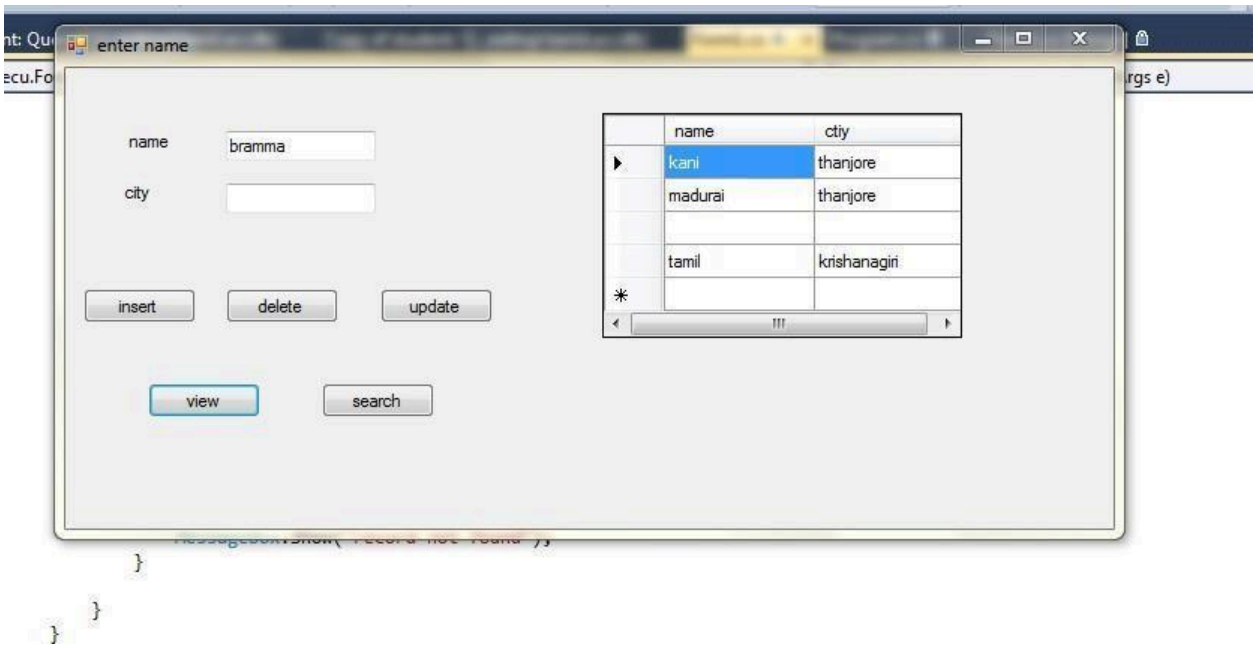
OUTPUT

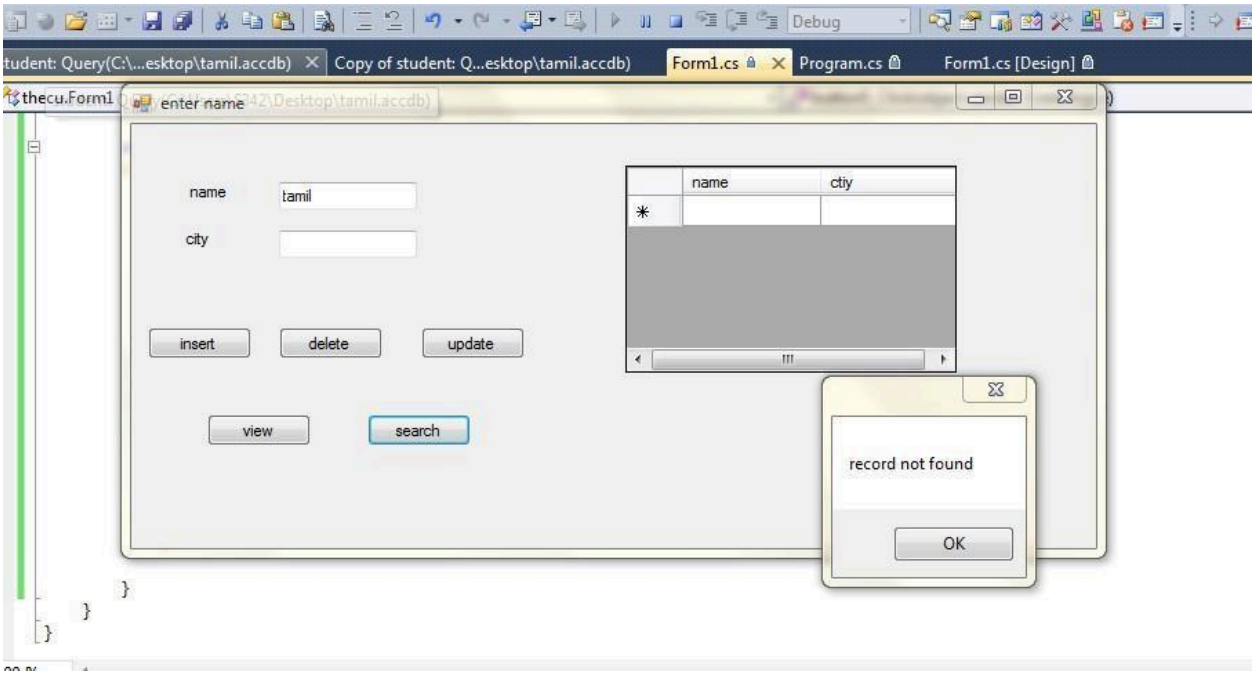





Form1
button5_Click(object sender, EventArgs e)
enter name
name
tamil
city
insert
delete
update
view
search
record deleted successfully
OK
0 Warnings
0 Messages


enter name
name
thecu
city
maduari
insert
delete
update
view
search
record updated successfully
OK





RESULT:

Thusto createC#.net windowformapplication-toinsert,update,deleteandselectoperationin OleDbConnection object has been verified.

Ex.No:7 WorkingwithvariousControlsinASP.NET

AIM:

TocreateASP.NETwebapplicationusingservercontrols.

ProgramCoding:

PROGRAMCODING:

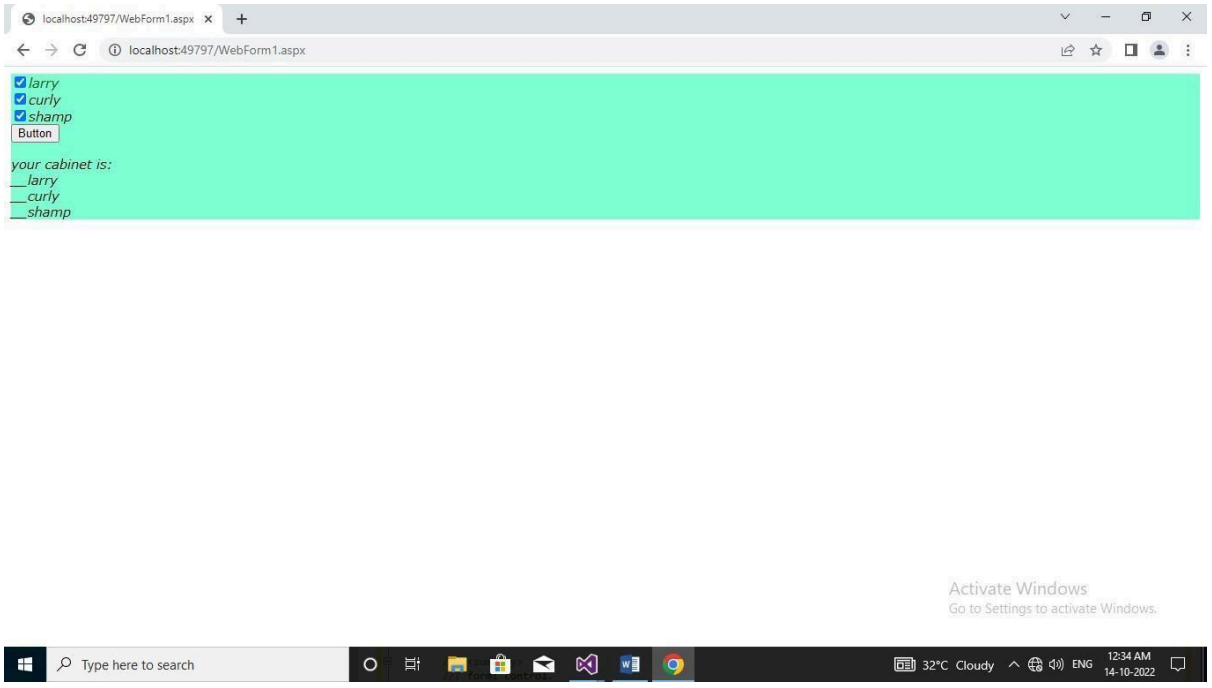
```
<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="WebForm1.aspx.cs"Inherits="WebApplication2.WebForm1
"%>

<!DOCTYPEhtml>

<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
    <title></title>
    <styletype="text/css">#form
        1 {
            font-style: italic;
            font-family:Verdana
            ; font-size:11pt;
            background-color:aquamarine;

        }
    </style>
</head>
<body><div>
    <formid="form1"runat="server">



               &nb
sp;          Using Web Server Controls<br />


        <asp:CheckBoxID="CheckBox1"runat="server"Text="larry"BorderColor="#CC99FF"ForeColor="#00
6600" />

        <br/>

        <asp:CheckBoxID="CheckBox2"runat="server"Text="curly"OnChe
ckedChanged="CheckBox2_CheckedChanged" />

        <br/>

        <asp:CheckBoxID="CheckBox3"runat="server"Text="shamp"/>

        <br/>

    <p>                                                <asp:LabelID="Label1"runat="server"Text="Label"></asp:
                                                       Label>

    </p>


    </form>

    </div>
    <p>

        <asp:ButtonID="Button1"runat="server"OnClick="Button1_Click1"Text="Button"/>
    </p>
</body>
```

```
</html>
```

C# CBox.aspx.cs

```
usingsystem;
PublicPartialClassCbox: System.Web.UI.Page
{
privateStringcabinet;
ProtectedvoidButton1_Click(Objectsender,EventArgse) cabinet=”Your
cabinetis:<br/>”;
cabinet+=Checkbox1.Checked==true?“-“+checkBox1.Text+”<br/>”:null;
cabinet+=Checkbox2.Checked==true?“-“+checkBox2.Text+”<br/>”:null;
cabinet+=Checkbox3.Checked==true?“-“+checkBox3.Text+”<br/>”:null;
cabinet+=Checkbox4.Checked==true?“-“+checkBox4.Text+”<br/>”:null;
Label1.Text=cabinet;
```

OUTPUT:



RESULT:

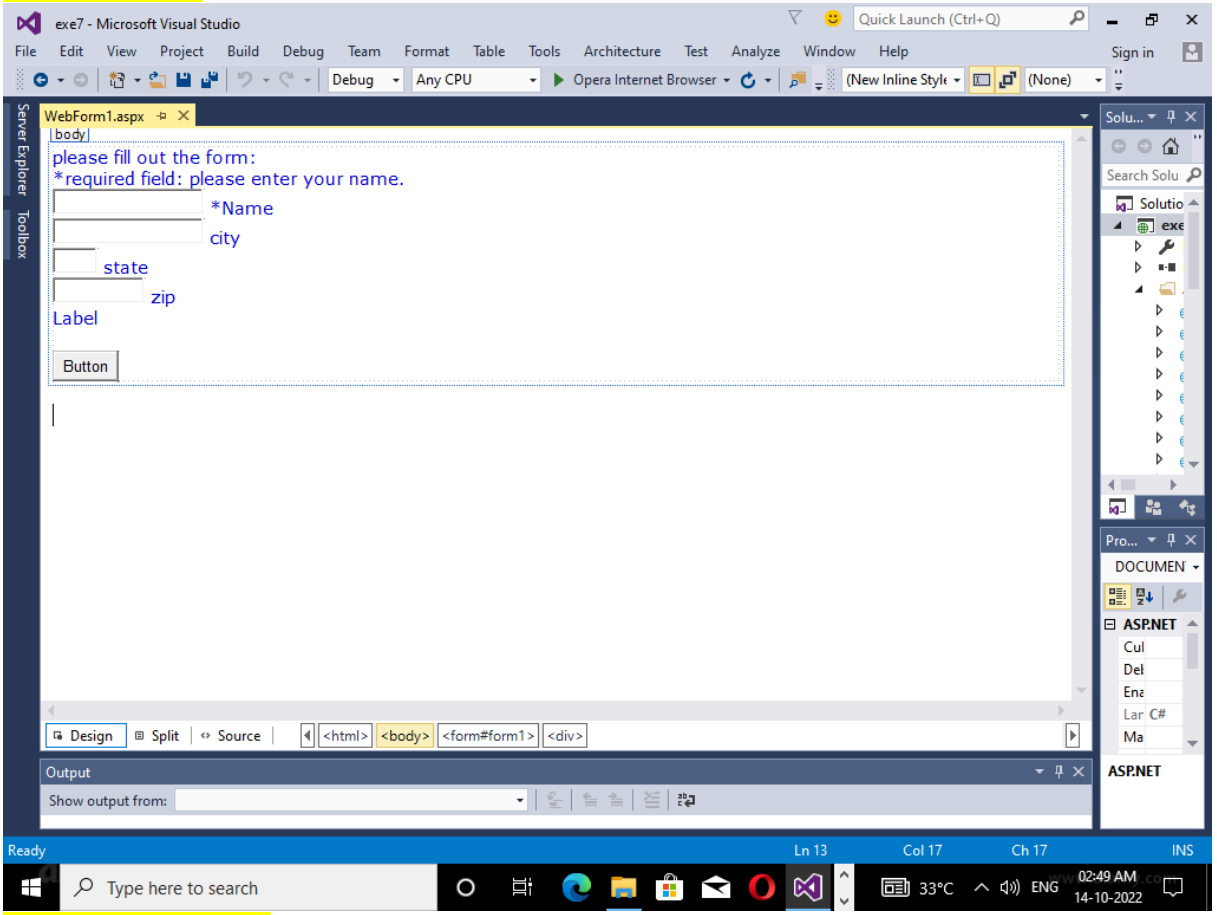
ThustocreateanASP.NETwebapplicationusingwebservercontrolshasbeendeveloped successfully.

Ex.No:8 UsingValidationControls

Aim:

TocreateASP.NETwebapplicationusingvalidationcontrols.

FORMDESIGN:



PROGRAMCODING:

WEBPAGEFORMDESIGNCODE:

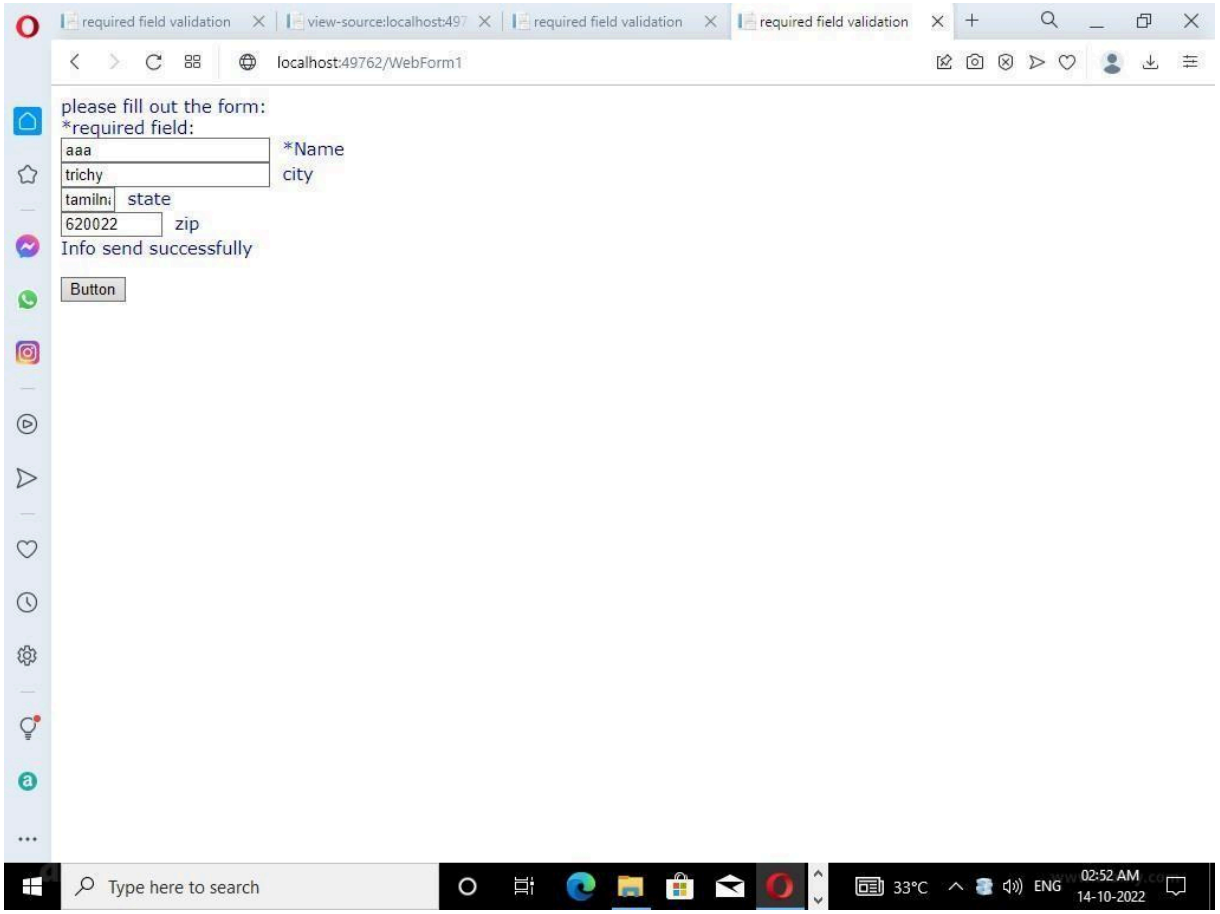
```
<%@PageLanguage="C#"AutoEventWireup="true"CodeBehind="WebForm1.aspx.cs"Inherits="exe7.WebForm1"%>

<!DOCTYPEhtmlPUBLIC"-//W3C//DTDXHTML1.0Transitional//EN""html://www.w3.org/TR/xhtmll-trasitional.
dtd">

<htmlxmlns="http://www.w3.org/1999/xhtml">
<headrunat="server">
<styletype="text/css">div
{
font-family:verdana
; font-size:11pt;
color:#0000cc;
        }
</style>
<title>requiredfieldvalidation</title>
</head>
<body>
<formid="form1"runat="server">
<div>
    pleasefilloutttheform:<br/>
        *requiredfield:
<asp:requiredFieldValidatorID="requiredFieldValidator2"runat="server"ControlToValidate="Textbox1"Er
```

```
rorMessage="pleaseenteryourname."/><br/>
<asp:TextBoxID="textbox1"runat="server"/>&
nbsp;*Name<br/>
<asp:textboxID="textbox2"runat="server"/>&
nbsp;city<br/>
<asp:textboxID="textbox3"runat="server"Width="38px"/> state<b
r/>
<asp:textboxID="textbox4"runat="server"width="78px"/
> zip<br/>


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


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

C#Code:

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

namespaceexe7
{
publicpartialclassWebForm1:System.Web.UI.Page
    {
protectedvoidButton1_Click(objectsender,EventArgse)
        {
            Label1.Text="Infosendsuccessfully";
        }
    }
}
```

OUTPUT:



RESULT:

ThustocreateASP.NETwebapplicationusingvalidationcontrolshasbeenverified successfully.

Ex.No:9 UsingstoredProcedures

Aim:

TocreateaSQLServerStoredProceduresdeclaringparametersinASP.NETWebapplication.

ALGORITHM:

Step1:FirstopenMicrosoftSQLServer->EnterpriseManager,
Step2:thennavigatetothedatabaseinwhichyouwanttocreatethestoredprocedure
Step3:selectNewStoredProcedure.thenselectStoredProcedurePropertiesforwhattoenter, andthenclick OK.
Step:NowcreateanapplicationnamedStoreProcedurein.net tousetheabovesprocs. Step 5:
Display the output. Stop the Execution.

DeclaringParametersinSQLServerStoredProcedures:

1. The name
2. The datatype
3. Thedefault value
4. The direction

Thesyntaxis

@parameter_name[AS]datatype[=default|NULL][VARYING][OUTPUT|OUT] Let's
now create a stored procedure named "Submitrecord".

PROGRAMCODING:

StoredProcedure.aspxpagecode

```
<%@PageLanguage="C#"AutoEventWireup="true"CodeFile="Default.aspx.cs"Inherits="_Defaul t"%>

    <!DOCTYPEhtmlPUBLIC"-
//W3C//DTDXHTML1.0Transitional//EN""http://www.w3.org/TR/xhtml1/DTD/xhtml1transitional
.dtd">

   <htmlxmlns="http://www.w3.org/1999/xhtml">


   <headrunat="server">

        <title>StoreProcedure</title>

   </head>

   <body>

        <formid="form1"runat="server">

          <div>
```

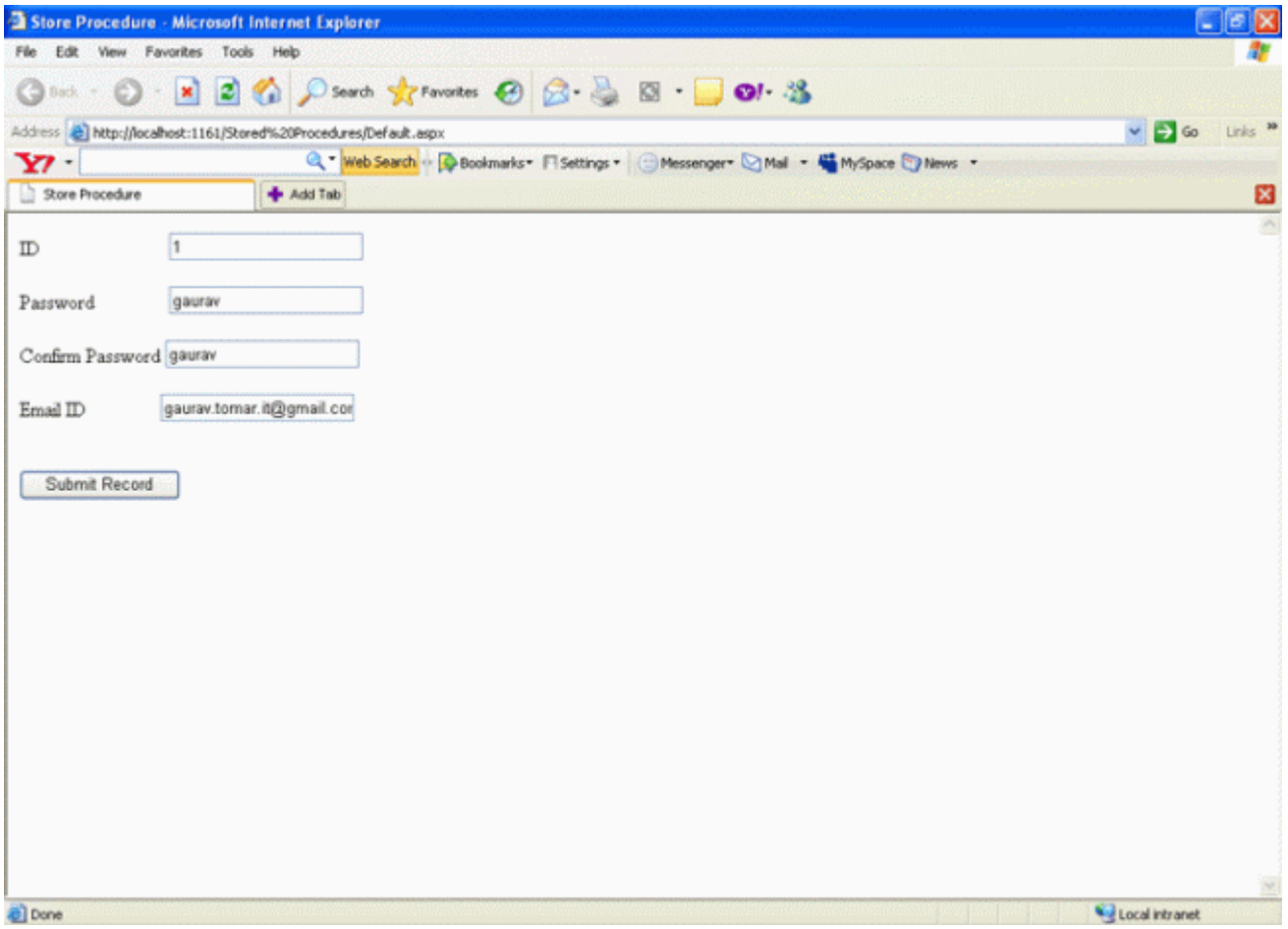
```
                <asp:LabelID="Label1"runat="server"Text="ID"></asp:Label>
                <asp:TextBoxID="TextBox1"runat="server"></asp:TextBox><br/><br/>
                <asp:LabelID="Label2"runat="server"Text="Password"></asp:Label>
                <asp:TextBoxID="TextBox2"runat="server"></asp:TextBox><br/>
<br/>
                <asp:LabelID="Label3"runat="server"Text="ConfirmPassword">
</asp:Label>
                <asp:TextBoxID="TextBox3"runat="server"></asp:TextBox><br/>
<br/>
                <asp:LabelID="Label4"runat="server"Text="EmailID">
</asp:Label>
                <asp:TextBoxID="TextBox4"runat="server"></asp:TextBox>
<br/><br/><br />
                <asp:ButtonID="Button1"runat="server"Text="SubmitRecord"OnClick="Butt
on1_Click"/></div>
  </form>
    </body>
    </html>
```

StoredProcedure.aspx.cspagecode

```
usingSystem;
 usingSystem.Data;
usingSystem.Configuration;
 usingSystem.Web;
usingSystem.Web.Security;
 usingSystem.Web.UI;
usingSystem.Web.UI.WebControls;
 usingSystem.Web.UI.WebControls.WebParts;
usingSystem.Web.UI.HtmlControls;
 usingSystem.Data.SqlClient;
```

```
publicpartialclass_Default:System.Web.UI.Page{

    DataSetds=newDataSet();

   SqlConnectioncon;

    //Herewedeclare theparameterwhichwehavetouseinourapplication

   SqlCommandcmd=newSqlCommand();

    SqlParametersp1=newSqlParameter();

   SqlParametersp2=newSqlParameter();

    SqlParametersp3=newSqlParameter();

   SqlParametersp4=newSqlParameter();

    protectedvoidPage_Load(objectsender,EventArgse){}

   protectedvoidButton1_Click(objectsender,EventArgse){

        con=newSqlConnection("server=(local);database=gaurav;uid=sa;pwd=");

   cmd.Parameters.Add("@ID",SqlDbType.VarChar).Value=TextBox1.Text;

    cmd.Parameters.Add("@Password",SqlDbType.VarChar).Value=TextBox2.Text;cmd.Para
meters.Add("@ConfirmPassword",SqlDbType.VarChar).Value=TextBox3.Text;

    cmd.Parameters.Add("@EmailID",SqlDbType.VarChar).Value=TextBox4.Text;          c
=newSqlCommand("submitrecord",con);                                               m
                                                                                  d
        cmd.CommandType=CommandType.StoredProcedure
        ;
      con.Open();

       cmd.ExecuteNonQuery();

      con.Close();

    }
}
```

OUTPUT:



Afterclicking thesubmitbuttonthedatais appendedto thedatabaseasseenbelow intheSQL Servertable record:

Result:

TocreateaSQL ServerStoredProcedures declaringparameters inASP.NETWebapplicationhasbeen verified.

Ex.No:10 UsingReuiredFieldValidation

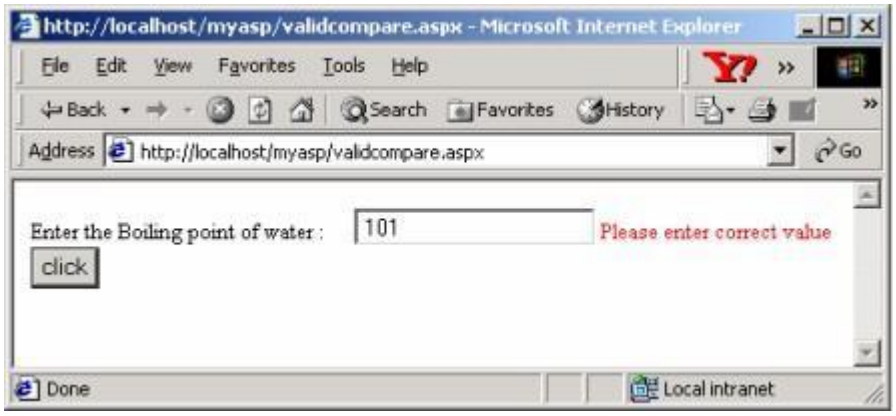
Aim:

TocreateprogramusingReuiredFieldValidationcontrolinASP.NETWebapplication.

PROGRAMCODING:

```
<html>
<body>
<formrunat=”server”>
<asp:labelid=”label” text=”EntertheBoilingpointofwater:“
runat=”server”
/>    
<asp:textboxid=”text1"text=”“runat=”server”/>
<asp:comparevalidatorid=”compboilpt”controltovalidate=”text1"Type=”In
teger”
 ValueToCompare=100Operator=”Equal”display=”static”errormessage=”Please enter
correct value” runat=”server”>
</asp:comparevalidator>
<asp:ValidationSummaryid=”sumErrors”runat=”server”
showSummary = true
displayMode=“BulletList” />
<br>
<asp:buttonid=bt1runat=”server”text=”click”/>
</form>
</body>
</html>Exerci
se : 1
LabSolutions
CentreforInformationTechnologyandEngineering,ManonmaniamSundaranarUniversity21
<html>
<body>
<h3>RequiredFieldValidation</h3>
<formrunat=server>
 Name:<asp:Textboxid=”txtName” runat=”server”></asp:Textbox>
 <asp:buttonid=”Button1"runat=”server”text=”Validate”/>
 <p>
 <asp:RequiredFieldValidatorid=”RequiredFieldValidator1"runat=”server”
 ControlToValidate=”txtName”
 ErrorMessage=”Nameisarequiredfield”
 ForeColor=”Red”>
 </asp:RequiredFieldValidator>
</form>
</body>
</html>
```

OUTPUT:



Result:

ThustocreateprogramusingReuiredFieldValidation controlinASP.NETWebapplicationhasbeen verified successully.