****

Program no: 1 **Date:19/08/25**

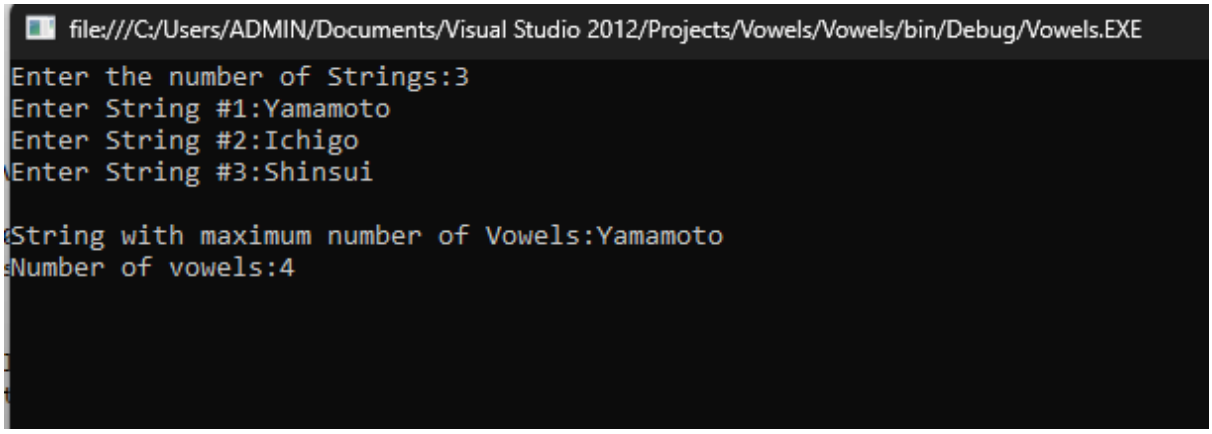
Create C# console application which reads a set of strings and then prints the string having maximum number of vowels.

****

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

namespace Vowels
{
   class Program
   {
      static int CountVowels(String str)
      {
         int count = 0;
         string vowels = "aeiouAEIOU";
         foreach(char c in str)
         {
            if (vowels.Contains(c.ToString()))
               count++;
         }
         return count;
      }
      static void Main()
      {
         Console.Write("Enter the number of Strings:");
         int n = int.Parse(Console.ReadLine());
         string maxVowelString = "";
         int maxVowelCount = -1;
         for (int i = 0; i < n; i++)
```

```
        {
            Console.Write("Enter String #{0}:", i + 1);
            string input = Console.ReadLine();
            int vowelCount = CountVowels(input);
            if (vowelCount > maxVowelCount)
            {
                maxVowelCount = vowelCount;
                maxVowelString = input;
            }
        }
        Console.WriteLine("\nString with maximum number of Vowels:" + maxVowelString);
        Console.WriteLine("Number of vowels:" + maxVowelCount);
        Console.ReadLine();
    }
  }
}
```

Output:



****

Pogram no: 2 **Date:19/08/25**

Write C# console program which stores different types of topics with the values :

Topics ={"Introduction to C#", "Variables", "Data Types", "Loops", "If statements", "jump statements", "classes and objects", "Inheritance", "Constructors"}

Using switch case statement categorise the topics as "Basic", "Control Flow" and "OOPs Concepts".

Sample Output:

Topic is Introduction to C#;Category is Basic Topic is Variables;Category is Basic

Topic is Data Types; Category is Basic Topic is Loops; Category is Control Flow

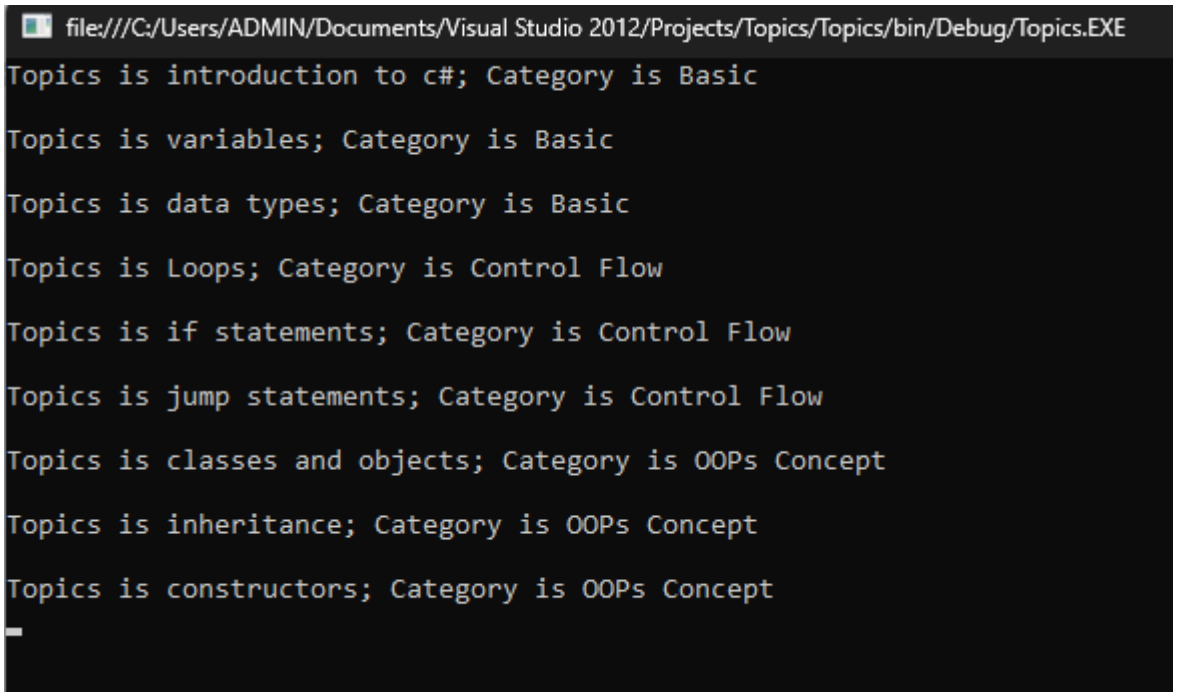
Topic is If Statements; Category is Control Flow Topic is Jump Statements; Category is Control Flow Topics is Class & Object; Category is OOPS Concept Topic is Inheritance; Category is OOPS Concept

****

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

namespace Topics
{
   class Program
   {
      static void Main(string[] args)
      {
         string[] topics = { "introduction to c#", "variables", "data types", "Loops", "if statements","jump statements", "classes and objects", "inheritance", "constructors" };
         foreach (string topic in topics)
         {
            string category = " ";
            string t = topic.ToLower();
            switch (t)
            {
               case "introduction to c#":
```

```
                case "variables":
                case "data types":
                    category = "Basic";
                     break;
                case "loops":
                case "if statements":
                case "jump statements":
                    category = "Control Flow";
                     break;
                case "classes and objects":
                case "inheritance":
                case "constructors":
                    category = "OOPs Concept";
                     break;
                default:
                    category = "Unknown";
                    break;
            }
            string displayTopic = topic;
            if (t == "Classes & Objects")
                displayTopic = "Class & Objects";
            else if (t == "If Statements")
                displayTopic = "If Statements";
            else if (t == "Jump Statements")
                displayTopic = "Jump Statements";
            Console.WriteLine(string.Format("Topics is {0}; Category is {1} ", displayTopic, category));
            Console.ReadLine();
        }
    }
  }
}
```

Output:


file:///C:/Users/ADMIN/Documents/Visual Studio 2012/Projects/Topics/Topics/bin/Debug/Topics.EXE
Topics is introduction to c#; Category is Basic
Topics is variables; Category is Basic
Topics is data types; Category is Basic
Topics is Loops; Category is Control Flow
Topics is if statements; Category is Control Flow
Topics is jump statements; Category is Control Flow
Topics is classes and objects; Category is OOPs Concept
Topics is inheritance; Category is OOPs Concept
Topics is constructors; Category is OOPs Concept

****

Program no: 3 **Date:26/08/25**

Write a console application to generate a number pattern in the shape of a right angled triangle with the numbers increased by 1.

The pattern output for 4 rows:

1

2 3

4 5 6

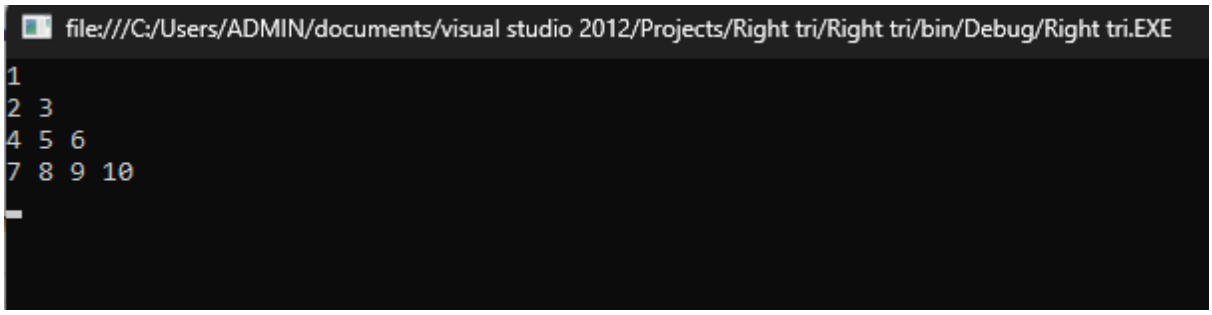
7 8 9 10

****

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

namespace Right_tri
{
   class Program
   {
      static void Main(string[] args)
      {
         int rows = 4;
         int n = 1;
         for (int i = 1; i <= rows; i++)
         {
            for (int j = 1; j <= i; j++)
            {
               Console.Write(n + " ");
               n++;
            }
            Console.WriteLine();
         }
         Console.ReadLine();
```

```
    }
  }
}
```

Output:


file:///C:/Users/ADMIN/documents/visual studio 2012/Projects/Right tri/Right tri/bin/Debug/Right tri.EXE
1
2 3
4 5 6
7 8 9 10

****

Program no: 4 **Date:26/08/25**

Create a C# console application that receives the following information from a set of students: Student Id, Student Name, Course Name, and Date of Birth. The application should also display the information of all the students once the data is entered. Implement this using an array of objects.

****

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

namespace Student_List
{
   class Program
   {
      struct student
      {
         public string sid, sname, cname;
         public int date, month, year;
      }
      static void Main(string[] args)
      {
         student[] s = new student[5];
         int i;
         for (i = 0; i < 3; i++)
         {
            Console.WriteLine("Enter Student ID:");
            s[i].sid = Console.ReadLine();
            Console.WriteLine("Enter Student Name:");
            s[i].sname = Console.ReadLine();
            Console.WriteLine("Enter Course Name:");
            s[i].cname = Console.ReadLine();
            Console.WriteLine("Enter Dob");
```

```
            Console.WriteLine("Enter Date:");
            s[i].date = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Month:");
            s[i].month = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Year:");
            s[i].year = Convert.ToInt32(Console.ReadLine());
        }
        Console.WriteLine("Student List:");
        Console.WriteLine("Student ID Student Name CoursreName Date of Birth");
        for (i = 0; i < 3; i++)
        {
            Console.WriteLine(s[i].sid + "\t\t" + s[i].sname + "\t\t" + s[i].cname + "\t\t" + s[i].date + "-" +
s[i].month + "-" + s[i].year);
        }
        Console.ReadKey();
    }
  }
}
```

Output:

```
Enter Student ID:
101
Enter Student Name:
Suresh
Enter Course Name:
Bca
Enter Dob
Enter Date:
10
Enter Month:
12
Enter Year:
2003
Enter Student ID:
104
Enter Student Name:
Arun
Enter Course Name:
BBA
Enter Dob
Enter Date:
16
Enter Month:
9
Enter Year:
2004
Enter Student ID:
103
Enter Student Name:
Aizen
Enter Course Name:
Bca
Enter Dob
Enter Date:
19
Enter Month:
8
Enter Year:
2003
Student List:
Student ID Student Name CoursreName Date of Birth
101             Suresh          Bca             10-12-2003
104             Arun            BBA             16-9-2004
103             Aizen           Bca             19-8-2003
```

****

Program no: 5 **Date:02/09/25**

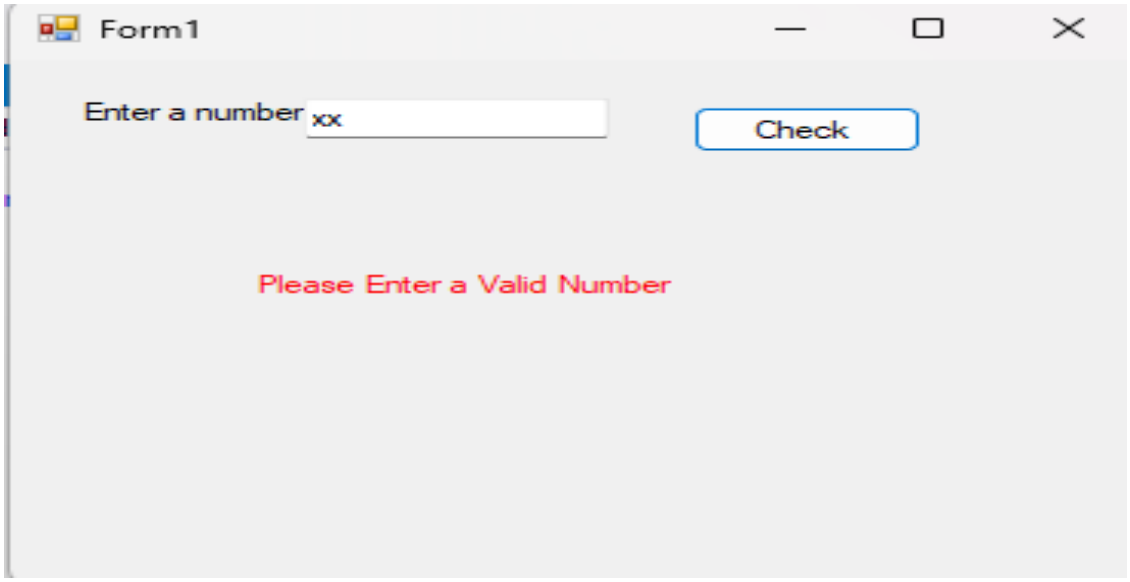
Create a windows form application that allows the user to enter a number in the textbox named 'getnum'. Check whether the number in the textbox 'getnum' is palindrome or not. Print the message accordingly in the label control named lbldisplay when the user clicks on the button 'check'.

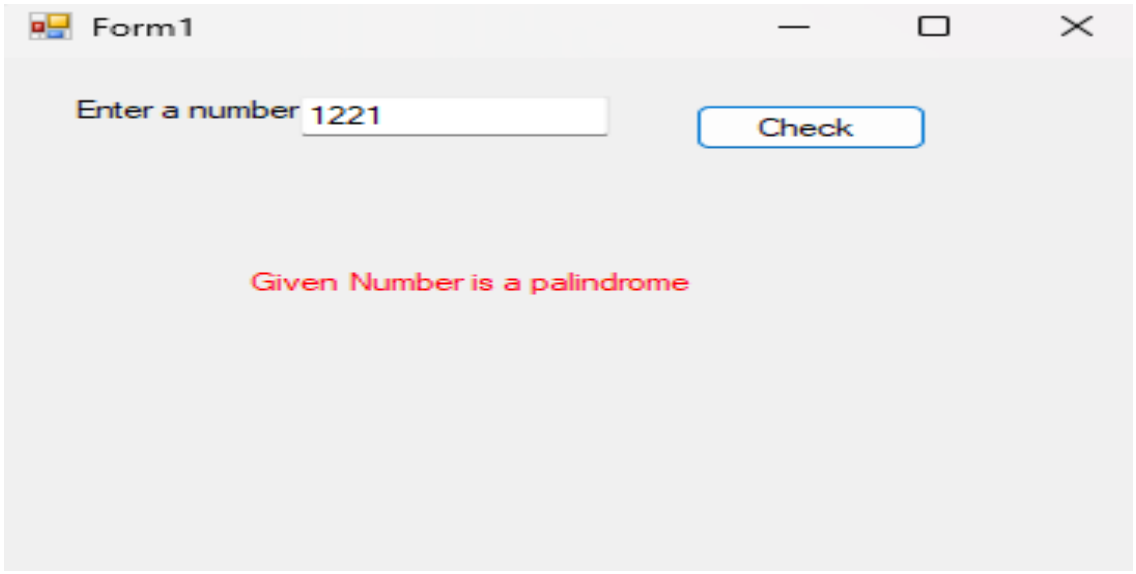
****

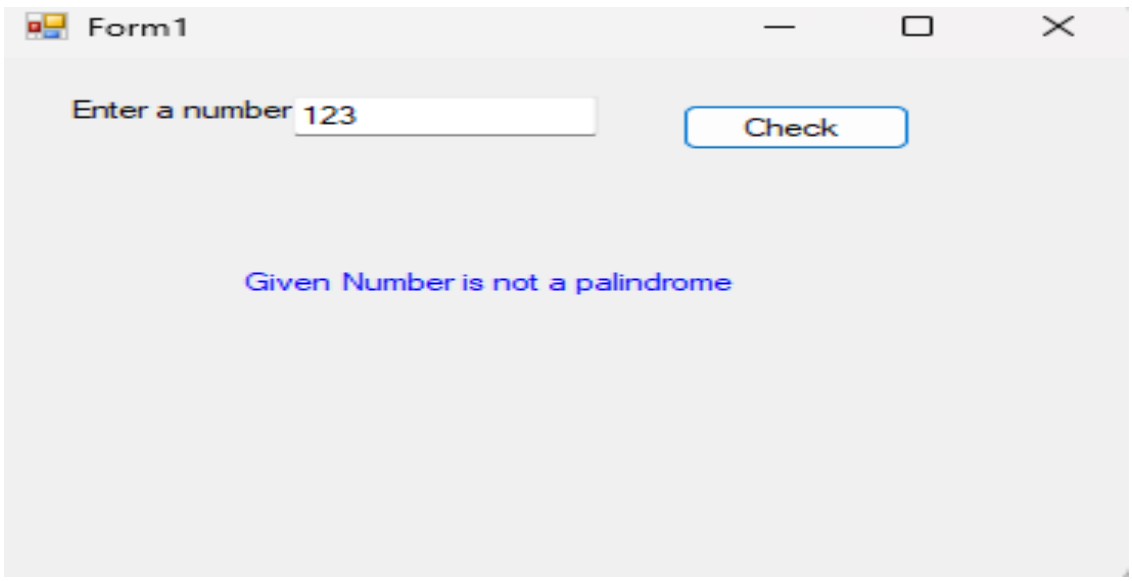
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

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

      private void Check_Click(object sender, EventArgs e)
      {

      double num;
         string str = getnum.Text;
         if (string.IsNullOrWhiteSpace(str))
         {
            lbldisplay.Text = "Please Enter a valid Number";
            return;
```

```
        }
        if (double.TryParse(str, out num))
        {
            string revstr = new string(str.Reverse().ToArray());
            if (str == revstr)
            {
                lbldisplay.Text = "Given Number is a palindrome";
            }
            else
            {
                lbldisplay.Text = "Given Number is not a palindrome";
                lbldisplay.ForeColor = Color.Blue;
            }
        }
        else
        {
            lbldisplay.Text = "Please Enter a Valid Number";
            lbldisplay.ForeColor = Color.Red;
        }
    }
  }
}
```

Output :


Form1
Enter a number
xx
Check
Please Enter a Valid Number


Form1
Enter a number
1221
Check
Given Number is a palindrome


Form1
Enter a number
123
Check
Given Number is not a palindrome

****

Program no: 6 **Date:09/09/25**

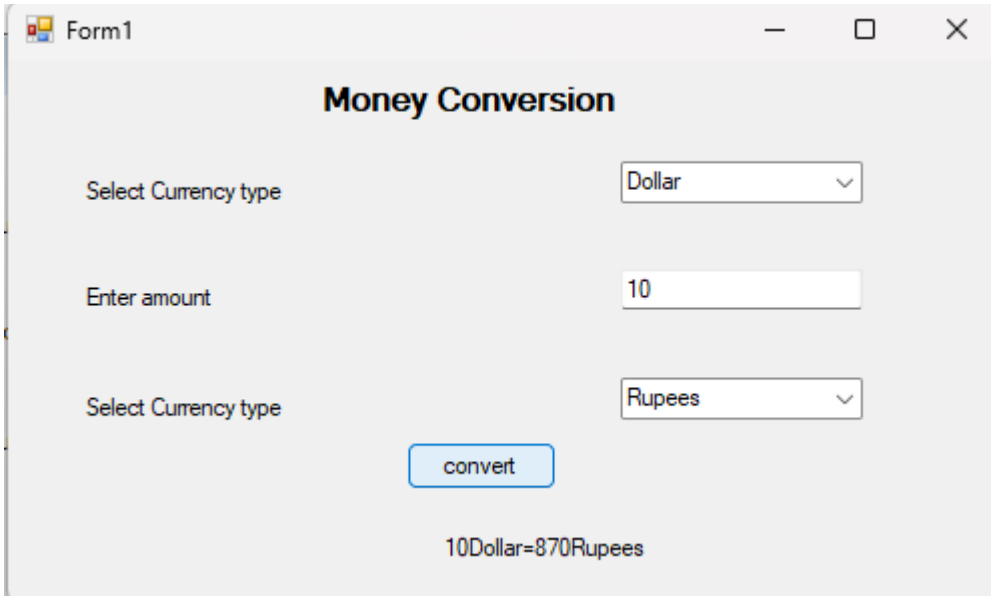
Implement C# windows form application to perform money conversion.

****

```
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 Money_Conversion
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }

      private void button1_Click(object sender, EventArgs e)
      {
         double f1=0,f2=0;
         double num = int.Parse(textBox1.Text);
         switch (comboBox1.Text)
         {
            case "Dollar": f1 = 87;
               break;
            case "Pound": f1 = 97;
               break;
            case "Euro": f1 = 102;
```

```
            break;
        case "Rupees": f1 = 1;
            break;
    }
    switch (comboBox2.Text)
    {
        case "Dollar": f2 = 87;
            break;
        case "Pound": f2 = 97;
            break;
        case "Euro": f2 = 102;
            break;
        case "Rupees": f2 = 1;
            break;
    }
    label5.Text = textBox1.Text + "" + comboBox1.Text + "=" + num * f1 / f2 + "" +
comboBox2.Text;
}
```

Output:



****

Program no: 7 **Date:09/09/25**

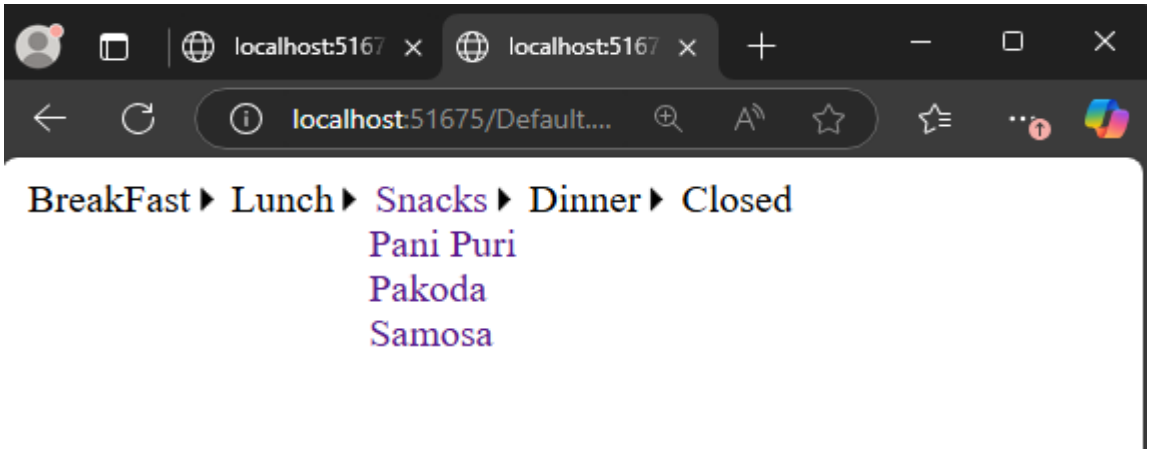
Design a webpage of a hotel which displays different Menu as per the Time of Visit.

****

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

public partial class _Default : System.Web.UI.Page
{
   protected void Page_Load(object sender, EventArgs e)
   {
      int hour = DateTime.Now.Hour;
      if (hour >= 6 && hour < 12)
      {
         Menu1.Items[1].Enabled = false;
         Menu1.Items[2].Enabled = false;
         Menu1.Items[3].Enabled = false;
         Menu1.Items[4].Enabled = false;
      }
      else if (hour >= 12&& hour < 15)
      {
         Menu1.Items[0].Enabled = false;
         Menu1.Items[2].Enabled = false;
         Menu1.Items[3].Enabled = false;
         Menu1.Items[4].Enabled = false;
      }
      else if (hour >= 15 && hour < 18)
      {
         Menu1.Items[0].Enabled = false;
         Menu1.Items[1].Enabled = false;
```

```
            Menu1.Items[3].Enabled = false;
            Menu1.Items[4].Enabled = false;
        }
        else if (hour >= 18 && hour < 21)
        {
            Menu1.Items[0].Enabled = false;
            Menu1.Items[1].Enabled = false;
            Menu1.Items[2].Enabled = false;
            Menu1.Items[4].Enabled = false;
        }
        else
        {
            Menu1.Items[0].Enabled = false;
            Menu1.Items[1].Enabled = false;
            Menu1.Items[2].Enabled = false;
            Menu1.Items[3].Enabled = false;
        }

    }
    protected void Menu1_MenuItemClick(object sender, MenuEventArgs e)
    {
    }
}
```

Output:



****

Program no: 1 **Date:16/09/25**

Create an MDI form with several child forms. (at least 3 child forms with proper information) MDI parent form should contain menu strip as shown below with menu options to open, close and rearrange the child forms.

Child Forms Window

Open Cascade

Close Tile Horizontal

Tile vertical Arrange icons.

****

```
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 MDI
{
   public partial class Form1 : Form
   {
      long count = 0;
      public Form1()
      {
         InitializeComponent();
         count = 0;
      }

      private void openToolStripMenuItem_Click(object sender, EventArgs e)
      {
         if (this.MdiChildren.Length == 0)
```

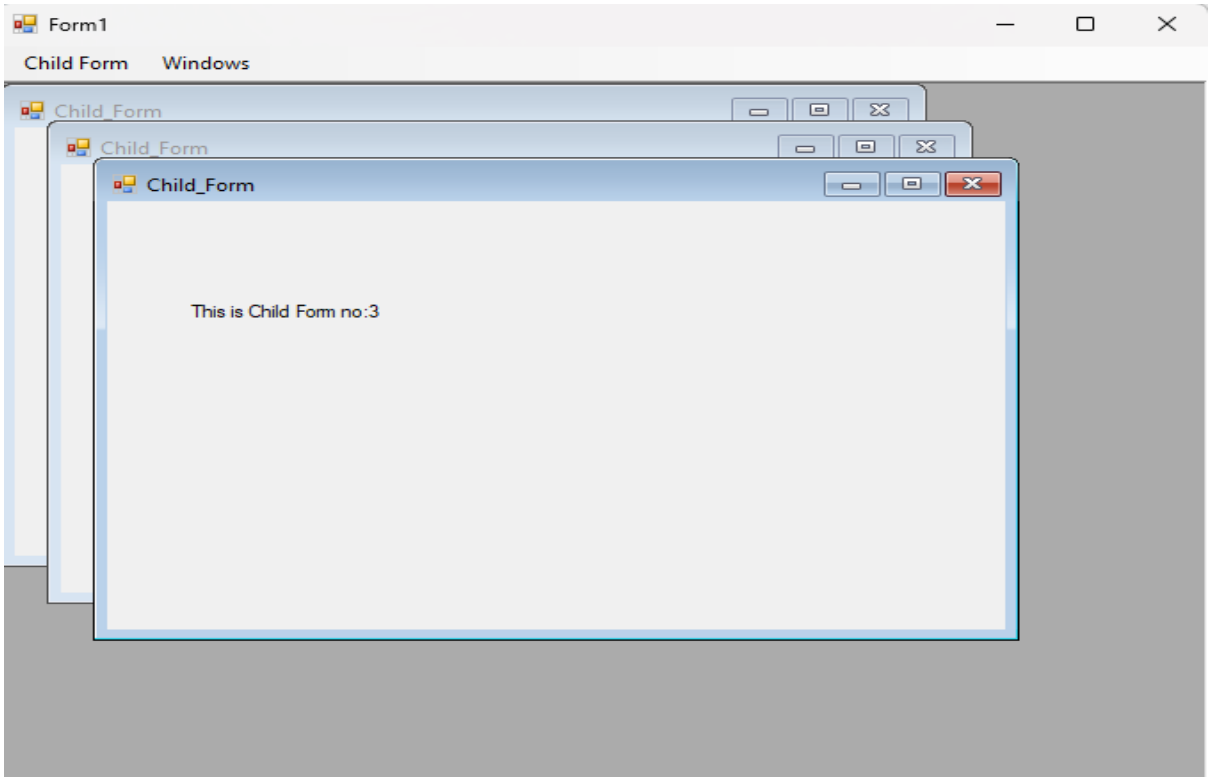
```
        count = 0;
    else
        count = this.MdiChildren.Length;

    Child_Form f = new Child_Form(++count);
    f.MdiParent=this;
    f.Show();
}

private void closeToolStripMenuItem_Click(object sender, EventArgs e)
{
    if (this.ActiveMdiChild != null)
        this.ActiveMdiChild.Close();
}

private void cascadeToolStripMenuItem_Click(object sender, EventArgs e)
{
    this.LayoutMdi(MdiLayout.Cascade);
}

private void tileHorizontalToolStripMenuItem_Click(object sender, EventArgs e)
{
    this.LayoutMdi(MdiLayout.TileHorizontal);

}

private void tileVerticallyToolStripMenuItem_Click(object sender, EventArgs e)
{
    this.LayoutMdi(MdiLayout.TileVertical);
}

private void arrangeToolStripMenuItem_Click(object sender, EventArgs e)
{
    this.LayoutMdi(MdiLayout.ArrangeIcons);
```

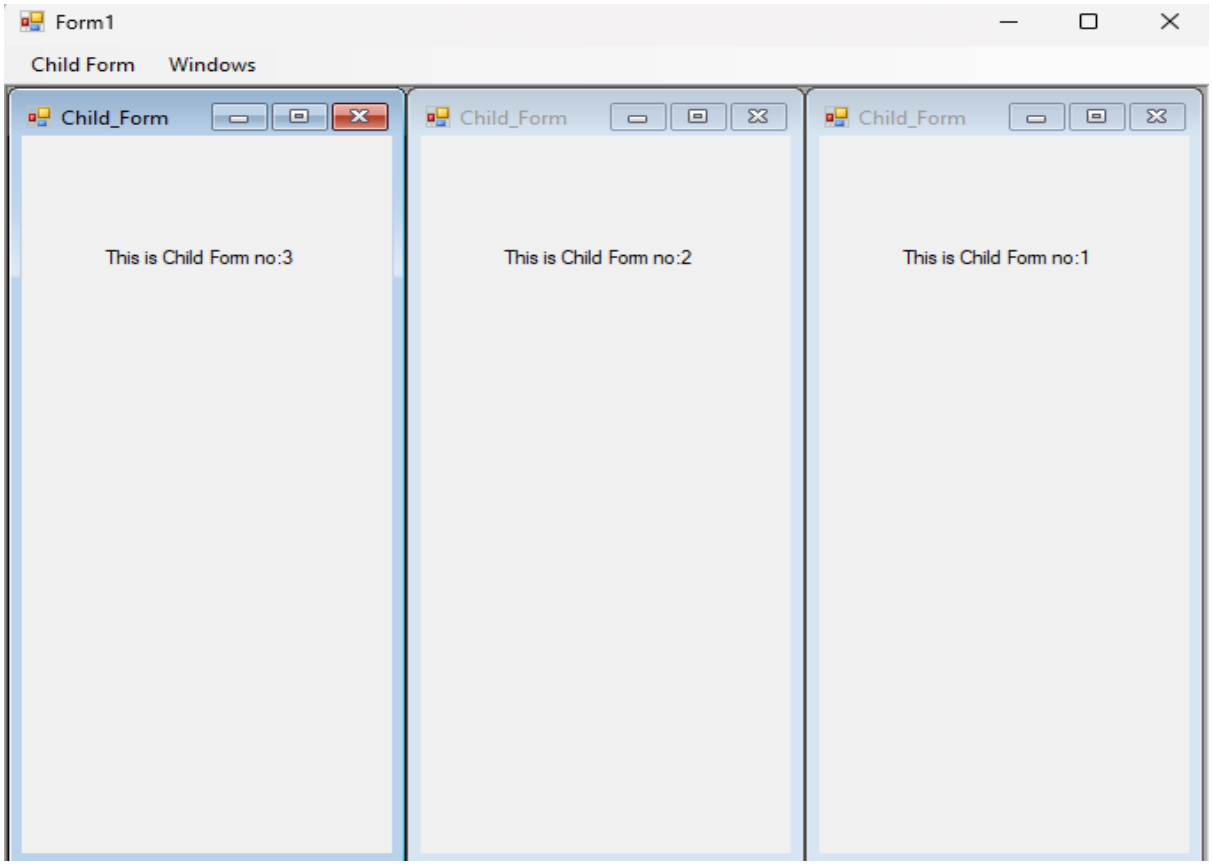
```
    }
```

Child Form

```
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 MDI
{
   public partial class Child_Form : Form
   {
      public Child_Form(long count)
      {
         InitializeComponent();
         label1.Text = "This is Child Form no:" + count;
      }
   }
}
```

Output:


Form1
Child Form
Windows
Child_Form
Child_Form
Child_Form
This is Child Form no:3


Form1
Child Form
Windows
Child_Form
This is Child Form no:3
Child_Form
This is Child Form no:2
Child_Form
This is Child Form no:1


Form1
Child Form
Windows
Child_Form
This is Child Form no:3
Child_Form
This is Child Form no:2
Child_Form
This is Child Form no:1

****

Program no: 2 **Date:23/09/25**

Design and implement a windows form application in C# to calculate and display an employee's salary details using the given conditions.

If Basic <= 20000 D.A is 40% of Basic, H.R.A is 10% of Basic, P.F 12% of Gross, PT is Rs.100

If Basic> 20000 D.A is 50% of Basic, H.R.A 15% of Basic, P.F 12% of Gross, PT is Rs.150

Gross = Basic+D.A +HRA, Net = Gross -PT –PF

The form should allow the user to input Employee ID, Employee Name, Date of Birth and Basic Pay using appropriate controls (Textbox/DateTimePicker). On clicking "Calculate" button, the application should display the calculated values in appropriate output controls (ReadOnlyTextBoxes or Labels).

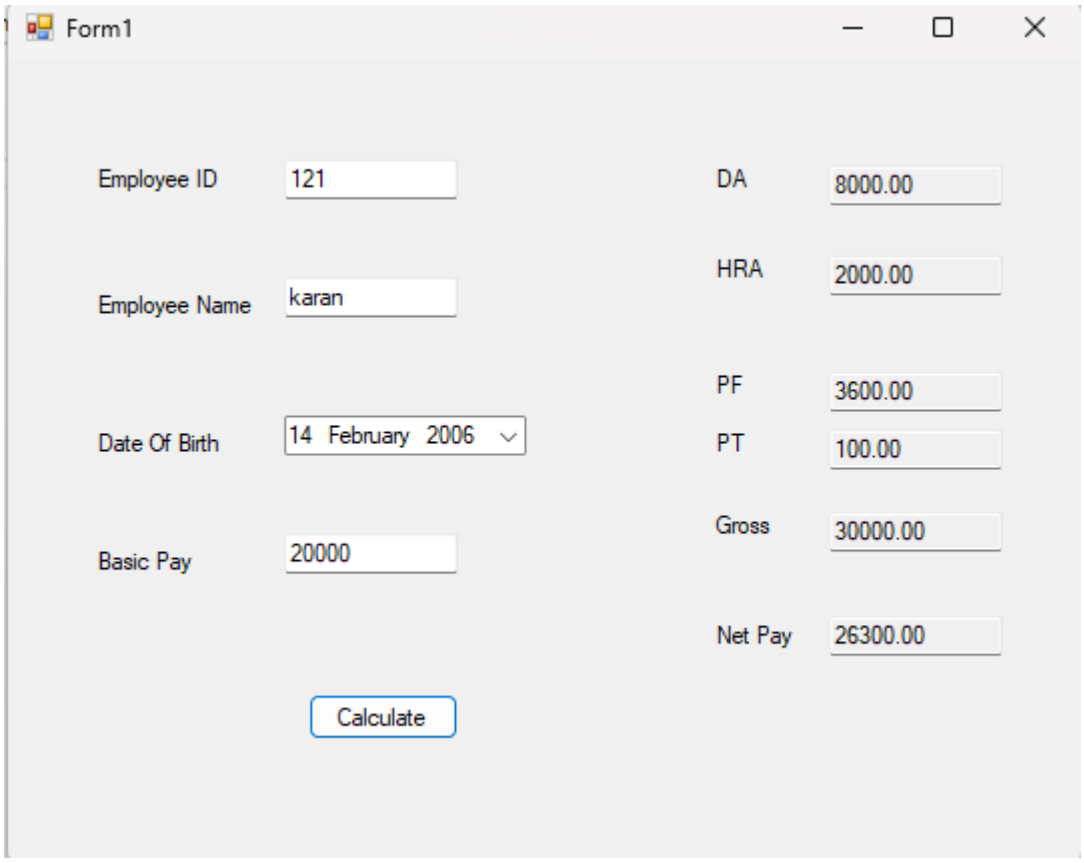
****

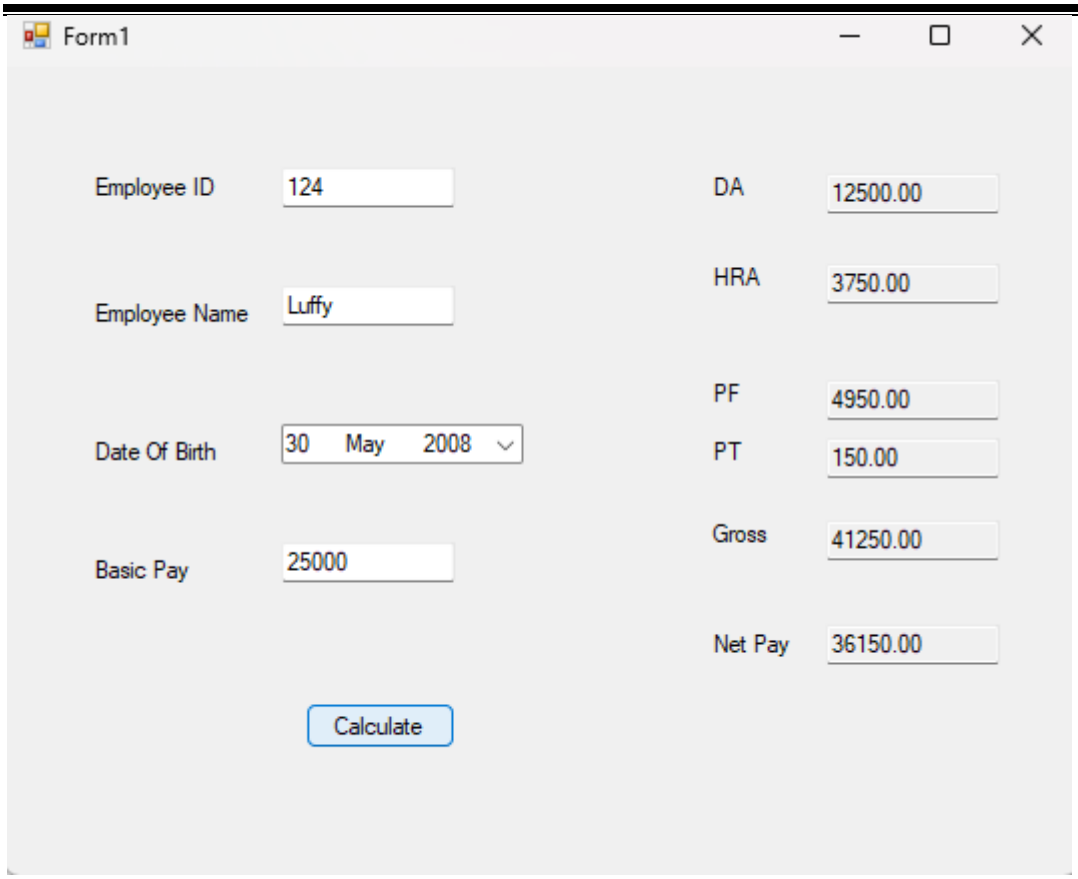
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace EmpSalary
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
      }
      private void button1_Click(object sender, EventArgs e)
      {
         string empID = txtEmpID.Text.Trim();
```

```
        string empName = txtEmpName.Text.Trim();
        if (string.IsNullOrWhiteSpace(empID) ||
            string.IsNullOrWhiteSpace(empName) ||
            string.IsNullOrWhiteSpace(txtBasic.Text))
        {
            MessageBox.Show("Please enter all the required fields.", "Input Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
            return;
        }
        if (dtpDOB.Value.Date > DateTime.Today)
        {
            MessageBox.Show("Date of Birth cannot be in the future", "Input Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
            return;
        }
        decimal basic;
        if (!decimal.TryParse(txtBasic.Text, out basic))
        {
            MessageBox.Show("Please enter a valid numeric basic pay", "Input Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
            return;
        }
        decimal da, hra, pf, pt, gross, net;
        if (basic < 20000)
        {
            da = 0.40m * basic;
            hra = 0.10m * basic;
            pt = 100m;
        }
        else
        {
            da = 0.50m * basic;
            hra = 0.15m * basic;
            pt = 150m;
```

```
        }
        gross = basic + da + hra;
        pf = 0.12m * gross;
        net = gross - pt - pf;
        txtDA.Text = da.ToString("F2");
        txtHRA.Text = hra.ToString("F2");
        txtPF.Text = pf.ToString("F2");
        txtPT.Text = pt.ToString("F2");
        txtgross.Text = gross.ToString("F2");
        txtNet.Text = net.ToString("F2");
    }
  }
}
```

Output:




Form1
Employee ID
124
Employee Name
Luffy
Date Of Birth
30 May 2008
Basic Pay
25000
Calculate
DA
12500.00
HRA
3750.00
PF
4950.00
PT
150.00
Gross
41250.00
Net Pay
36150.00

****

Program no: 3 **Date:30/09/25**

Design windows form application to order pizza in a restaurant. Select pizza size using radio buttons, toppings using check boxes and quantity using numericUpDown control. PictureBox should display an image of the pizza with selected toppings.

Buttons :

Order – To calculate and display the total amount and order summary.

Another pizza variety – Clears earlier size, toppings and quantity selections in the form so that you can add another variety of pizza to the current order.

Clear : cancels the order.

****

Pizza Size Selection using **RadioButtons**	**Toppings Selection** using **CheckBoxes**
○ Small – ₹100 ○ Medium – ₹150 ○ Large – ₹200 *(Note: Only one size can be selected.)*	○ Extra cheese – ₹30 ○ Olives – ₹30 ○ Onions – ₹20 ○ Mushrooms – ₹30

```
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 Pizza
{
   struct pizza
   {
      public double qty, amt;
   }
   public partial class Form1 : Form
```

```
{
    private Dictionary<string, pizza> orders = new Dictionary<string, pizza>();
    public Form1()
    {
        InitializeComponent();
    }

    private void label1_Click(object sender, EventArgs e)
    {

    }

    private void button3_Click(object sender, EventArgs e)
    {
        clearAll();
        richTextBox1.Clear();
        orders.Clear();
        label2.Text = "----------Order Cancelled----------";
    }

    private void radioButton1_CheckedChanged(object sender, EventArgs e)
    {
        showLabel();
    }

    private void checkBox1_CheckedChanged(object sender, EventArgs e)
    {
        showLabel();
        int setImage = 15;
        if (!checkBox1.Checked) setImage &= 7;
        if (!checkBox2.Checked) setImage &= 11;
        if (!checkBox3.Checked) setImage &= 13;
        if (!checkBox4.Checked) setImage &= 14;
        pictureBox1.Image = imageList1.Images[setImage];
```

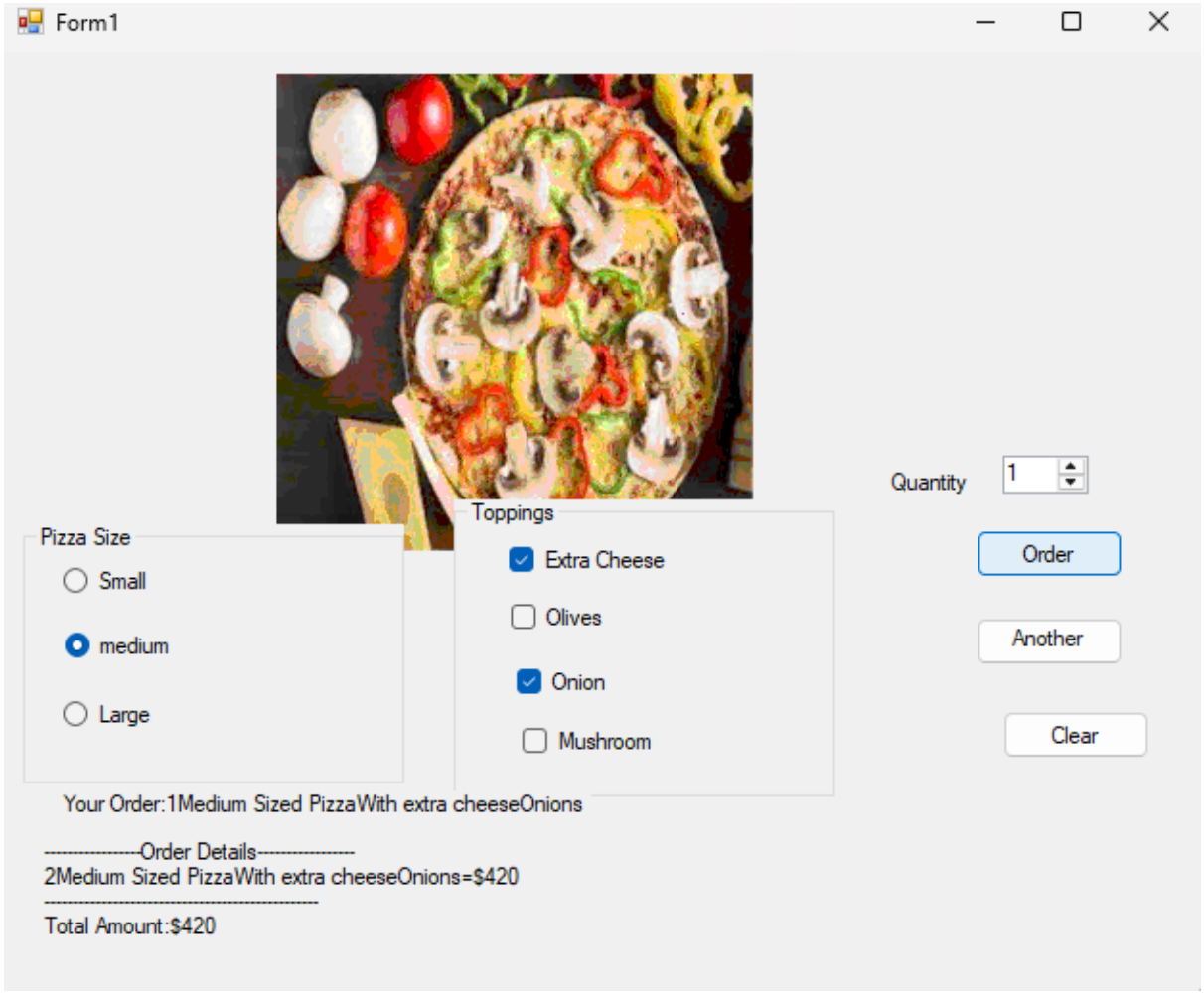
```
}

private void pictureBox1_Click(object sender, EventArgs e)
{

}
private void showLabel()
{
   double qty = Convert.ToDouble(numericUpDown1.Value);
   string details = getOrderdetails();
   label2.Text = "Your Order:" + qty + "" + details;
}

private void Form1_Load(object sender, EventArgs e)
{
   pictureBox1.Image = imageList1.Images[0];
}
private string getOrderdetails()
{
   string size = "";
   if (radioButton1.Checked) size = "Small Sized Pizza";
   if (radioButton2.Checked) size = "Medium Sized Pizza";
   if (radioButton3.Checked) size = "Large  Sized Pizza";
   string toppings = "";
   if (checkBox1.Checked) toppings += "extra cheese";
   if (checkBox2.Checked) toppings += "Olives";
   if (checkBox3.Checked) toppings += "Onions";
   if (checkBox4.Checked) toppings += "Mushrooms";
   if (string.IsNullOrEmpty(toppings))
   {
      return size + "With no toppings";
   }
   else
   {
```

```
        toppings = toppings.TrimEnd(',', ',');
        return size + "With " + toppings;
    }
}

private void numericUpDown1_ValueChanged(object sender, EventArgs e)
{
    showLabel();
}
private double totalAmount()
{
    double qty = Convert.ToDouble(numericUpDown1.Value);
    double price = 0;
    if (radioButton1.Checked) price = 100;
    if (radioButton2.Checked) price = 150;
    if (radioButton3.Checked) price = 200;
    if (checkBox1.Checked) price += 30;
    if (checkBox2.Checked) price += 30;
    if (checkBox3.Checked) price += 30;
    return qty * price;
}

private void button1_Click(object sender, EventArgs e)
{
    double qty = Convert.ToDouble(numericUpDown1.Value);
    double amt = totalAmount();
    string details = getOrderdetails();
    double finalTotal = 0;
    pizza p;
    p.amt = amt;
    p.qty = qty;
    if (orders.ContainsKey(details))
    {
        p.qty += orders[details].qty;
```

```
            p.amt += orders[details].amt;
            orders[details] = p;
        }
        else
        {
            orders.Add(details, p);
        }
        richTextBox1.Clear();
        if (orders.Count > 0)
        {
            richTextBox1.AppendText("----------Order Details----------\n");
            foreach (var item in orders)
            {
                p = item.Value;
                richTextBox1.AppendText(p.qty + "" + item.Key + "=$" + p.amt + "\n");
                finalTotal += p.amt;
                ;
            }
            richTextBox1.AppendText("-----------------------------------------------\n");
            richTextBox1.AppendText("Total Amount:$" + finalTotal);
        }
    }
    private void clearAll()
    {
        radioButton1.Checked = true;
        checkBox1.Checked = false;
        checkBox2.Checked = false;
        checkBox3.Checked = false;
        checkBox4.Checked = false;
        numericUpDown1.Value = 1;
        label2.Text = "";
    }

    private void button2_Click(object sender, EventArgs e)
```

```
        {
            clearAll();
            label2.Text = "Please Select Another Variety";
        }
    }
}
```

Output:



****

Program no: 4 **Date:14/10/25**

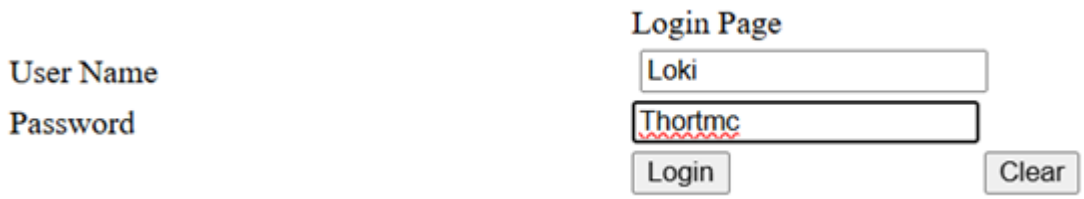
Create a web form for Login Module which adds a username and password to the database. The username in the database should be a primary key. Also implement proper authentication functionality.

****

```
using System;
  using System.Collections.Generic;
  using System.Linq;
  using System.Web;
  using System.Web.UI;
  using System.Web.UI.WebControls;
  using System.Data;
  using System.Data.SqlClient;
  namespace Login_Form
  {
     public partial class WebForm1 : System.Web.UI.Page
     {
        protected void Page_Load(object sender, EventArgs e)
        {
           ValidationSettings.UnobtrusiveValidationMode = UnobtrusiveValidationMode.None;
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
           SqlConnection con= new SqlConnection(Properties.Settings.Default.constr);
           String query ="insert into login values(@uname,@password)";
           SqlCommand cmd = new SqlCommand(query, con);
           cmd.Parameters.AddWithValue("@uname", TextBox1.Text);
           cmd.Parameters.AddWithValue("@password", TextBox2.Text);
           con.Open();
           cmd.ExecuteNonQuery();
           con.Close();
```

```
            ScriptManager.RegisterStartupScript(this,this.GetType(),"Show alert","alert('Login
Successful')",true);
        }

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

Output:



****

Program no: 5 **Date:28/10/25**

Create a web application to design an admission form with client side validations.

****

Steps:

New project > Visual C# > Web > ASP.Net Empty WebApplication > Right Click > add > new item > web form

Insert Table > Rows 11 > Column 3

Type Name,Regno,DOB,Department,Address,Phone Number :Personal ph no and Home ph no ,Email Id

Add TextBox to all fields

Change Text of TextBox to txtName,txtReg,txtDept,txtAdd,txtPersonal,txtHome,txtEmail

Add Required Field Validator to Name ,Dob,Department,Address

Change Error Messages and color to red and set control to validate.

Add Range Validator To RegNo

Change Error Message set Maximum and minimum values and set control to validate.

Add Compare Validator to Personal Phone no

Change Error Message and operator to Not equal

Set Control to compare –Txt personal

Set Control to Validate-Txt Home

Add Regular Expression Validator to Email Id

Change Validation Expression -to internet email address

```
<configuration>
    <system.web>
      <compilation debug="true" targetFramework="4.5" />
      <httpRuntime targetFramework="4.5" />
    </system.web>
<appSettings>
  <add key="ValidationSettings:UnobtrusiveValidationMode" value="None"/>
  </appSettings>
</configuration>
```

Name		Must Enter Name
Reg No		Must enter Register number from 1 to 100
Dob		Must enter date of birth
Department		Must enter Department
Address		Must enter address
Phone Number:		
Personal Ph No		Must enter personal and home number
Home Ph No		
EmailId		Must enter email

Register

Name	Arjun
Reg No	10
Dob	10/12/2006
Department	Bca
Address	4/69 mahadevpet Madikeri
Phone Number:	
Personal Ph No	123456789
Home Ph No	987654321
EmailId	arjun169@gmail.com

Register

****

Program no: 6 **Date:04/11/25**

Design a webpage to enter Student information such as Student no, Student Name, marks in 3 subjects. Use the following buttons for,

• Add -> for adding the record to the database (Insert at least 5 records). Calculate total, percentage, grade and store it.

• Display – Display the records from the database using data grid view.

****

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

namespace StudentMarks
{
   public partial class WebForm2 : System.Web.UI.Page
   {
      protected void Button1_Click(object sender, EventArgs e)
      {
         try
         {
            int sno = int.Parse(TextBox1.Text);
            string sname = TextBox2.Text;
            int m1 = int.Parse(TextBox3.Text);
            int m2 = int.Parse(TextBox4.Text);
            int m3 = int.Parse(TextBox5.Text);
            int total = m1 + m2 + m3;
            double per = total / 3.0;
            string grade = " ";
            if (per < 35)
```

```
            grade = "Fail";
        else if (per < 50)
            grade = "Pass Class";
        else if (per < 60)
            grade = "Second Class";
        else if (per < 75)
            grade = "First Class";
        else
            grade = "Distiction";
        SqlConnection con = new SqlConnection(Properties.Settings.Default.constr);
        string query = "Insert into Student
    Values(@sno,@sname,@m1,@m2,@m3,@total,@per,@grade)";
        SqlCommand cmd = new SqlCommand(query, con);
        cmd.Parameters.AddWithValue("@sno", sno);
        cmd.Parameters.AddWithValue("@sname", sname);
        cmd.Parameters.AddWithValue("@m1", m1);
        cmd.Parameters.AddWithValue("@m2", m2);
        cmd.Parameters.AddWithValue("@m3", m3);
        cmd.Parameters.AddWithValue("@total", total);
        cmd.Parameters.AddWithValue("@per", per);
        cmd.Parameters.AddWithValue("@grade", grade);
        con.Open();
        cmd.ExecuteNonQuery();
        Label1.Text = "Student information is saved!";
        con.Close();
        TextBox1.Text = " ";
        TextBox2.Text = " ";
        TextBox3.Text = " ";
        TextBox3.Text = " ";
        TextBox4.Text = " ";
        TextBox5.Text = " ";
    }
    catch (Exception ex)
    {
```

```
            Label1.Text = "Error" + ex.Message;
            throw;
        }

    protected void Button2_Click(object sender, EventArgs e)
    {
       try
       {
       SqlConnection con =new SqlConnection(Properties.Settings.Default.constr);
       string query="select * from Student";
       SqlDataAdapter da=new SqlDataAdapter(query,con);
       DataTable dt=new DataTable();
       da.Fill(dt);
       GridView1.DataSource=dt;
       GridView1.DataBind();
       Label1.Text="Student details are listed below";
    }
    catch(Exception ex)
    {
    Label1.Text="Error"+ex.Message;
    }
  }
 }
}
```

Output:

Student Information

Student No 105

Student Name Sukuna

Marks in Subject1

Marks in Subject2

Marks in Subject3

Add Display

Student details are listed below

StudentNo	StudentName	Marks1	Marks2	Marks3	Total	Percentage	Grade
101	Luffy	80	90	80	250	83.33	Distiction
102	Aizen	95	90	90	275	91.67	Distiction
103	Gojo	98	99	100	297	99.00	Distiction
104	Hinata	70	50	40	160	53.33	Second Class

****

Program no: 7 **Date:11/11/25**

Create ASP.NET web application with the given user interface to input two strings(str1,str2) and perform two operations "Search" and Construct" by clicking respective buttons. The result of both operations shall be displayed in output TextBox.

SERACH: If the user clicks on "Search" button then appearance of str2 is searched in str1 and removed from str1. Also, the characters of str1, before and after str2 are concatenated together. Ignore the cases where there is no character in str1 before or after the str2.

****

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

namespace Stringext
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Button1_Click(object sender, EventArgs e)
      {
         string str1 = TextBox1.Text;
         string str2 = TextBox2.Text;
         StringBuilder sb = new StringBuilder();
         Regex reg = new Regex(str2, RegexOptions.IgnoreCase);
         foreach (string s in reg.Split(str1))
         {
            sb.Append(s);
         }
         TextBox3.Text = sb.ToString();
      }
```

```
    protected void Button2_Click(object sender, EventArgs e)
    {
        string str1 = TextBox1.Text;
        string str2 = TextBox2.Text;
        StringBuilder sb = new StringBuilder();
        int i = 0;
        foreach (char c in str1)
        {
            sb.Append(c);
            while (i < str2.Length)
            {
                sb.Append(str2[i]);
                i++;
                break;
            }
        }
        TextBox3.Text = sb.ToString();
    }
    protected void Button3_Click(object sender, EventArgs e)
    {
        TextBox1.Text = string.Empty;
        TextBox2.Text = string.Empty;
        TextBox3.Text = string.Empty;
    }
  }
}
```

Output:


Input1
Yamraj
Input2
yam
Output
Yyaammraj
Search
Costruct
Clear


Input1
Yamraj
Input2
yam
Output
raj
Search
Costruct
Clear