


```

        case
            "Multiply"
            : ans = n1
              * n2;
            break;

        case "Divide":
            ans = n1 /
              n2; break;

    }
    textBox3.Text = ans.ToString();
}
}
}

```

Output :

The screenshot shows a Windows Form titled "Form1" with a light gray background. It contains the following elements:

- First Number:** A text box containing the value "50".
- Second Number:** A text box containing the value "20".
- Buttons:** Four buttons are arranged horizontally: "Add" (highlighted with a blue border), "Difference", "Multiply", and "Divide".
- Result:** A text box at the bottom containing the value "70".

Experiment No . 2

Name: Bilal Mirje

Rollno: 64

Div: A

Batch: A3

2. Write the code for :

Number 1	<input type="text"/>
Number 2	<input type="text"/>
Select Operation	<div><div>▼</div><div>Add Subtract Multiply Divide</div></div>
Result	<input type="text"/>

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

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

            comboBox1_SelectedIndexChanged(object sender, EventArgs e)
            {
                int n1, n2, ans = 0;
                n1 = Convert.ToInt16(textBox1.Text);
                n2 = Convert.ToInt16(textBox2.Text);

                switch (comboBox1.SelectedItem.ToString())
                {
                    case "Add":
                        ans = n1 + n2;
                        break;
                }
            }
        }
    }
}
```

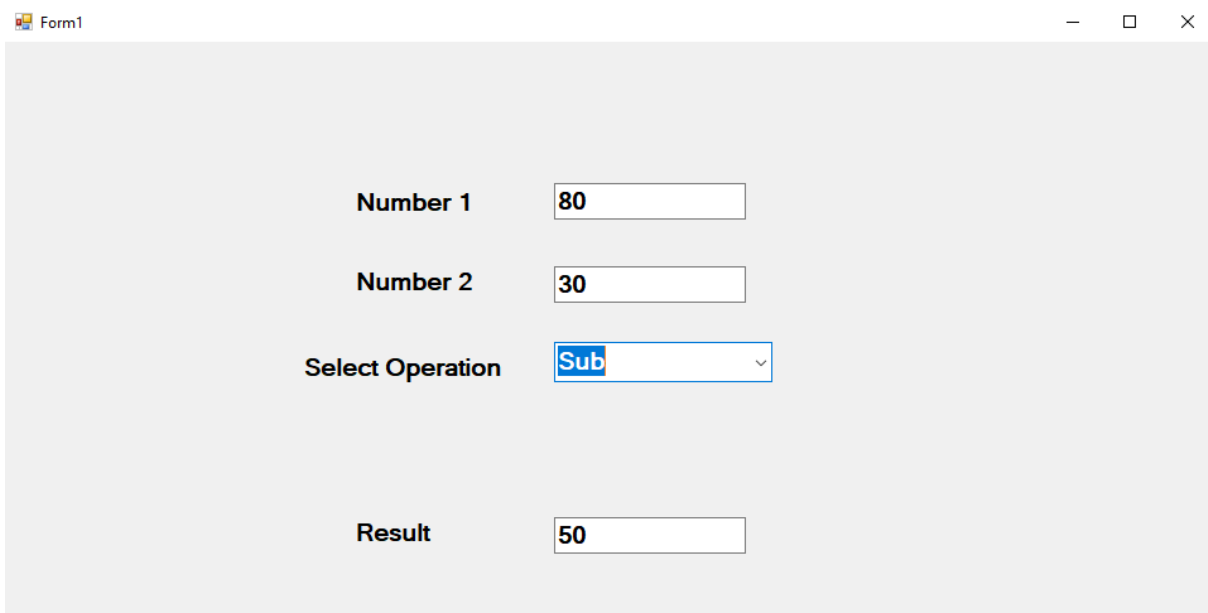
```
        case "Sub":
            ans = n1 - n2;
            if (ans < 0)
                ans *= -1;
            break;

        case "Mul":
            ans = n1 * n2;
            break;

        case "Div":

            ans = n1 / n2;
            break;
    }
    textBox3.Text = ans.ToString();
}
}
```

Output:-



The screenshot shows a Windows application window titled "Form1". Inside the window, there is a light gray rectangular area containing a simple calculator interface. The interface consists of four rows of labels and text boxes:

- The first row has the label "Number 1" followed by a text box containing the number "80".
- The second row has the label "Number 2" followed by a text box containing the number "30".
- The third row has the label "Select Operation" followed by a dropdown menu. The dropdown menu is open, showing the word "Sub" in blue text, and a small downward arrow is visible on the right side of the box.
- The fourth row has the label "Result" followed by a text box containing the number "50".

Experiment No. 3

Name : Bilal Mirje

Rollno : 64

Div: A

Batch : A3

3. Write the code for :

- a. Read name properly (alphabets , blank space and dot)
- b. Read only numbers/ digits for marks
- c. Marks must be between 0 to 100
- d. Calculate total & percentage

The screenshot shows a Windows Forms application with a light gray background. It contains the following controls:

- A text box labeled "Name" with a white background and a thin black border.
- Five text boxes for marks, each labeled with a subject: "Marathi", "Hindi", "English", "Maths", and "Science". Each text box contains the number "0".
- A button labeled "Show Result" with a gray background and a thin black border.
- A text box labeled "Total" with a white background and a thin black border.
- A text box labeled "Percentage" with a white background and a thin black border.

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

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

```

private void textBox1_TextChanged(object sender, EventArgs e)
{
    string pattern = @"^[A-Za-z.\s]*$";
    if (!Regex.IsMatch(textBox1.Text, pattern))
    {
        MessageBox.Show("Only letters, spaces, and dots are allowed in the name.", "Invalid
Input", MessageBoxButtons.OK, MessageBoxIcon.Warning);
        textBox1.Text = Regex.Replace(textBox1.Text, @"^[A-Za-z.\s]", "");
        textBox1.SelectionStart = textBox1.Text.Length;
    }
}

private void textBox2_KeyPress(object sender, KeyPressEventArgs e)
{
    if (e.KeyChar == '\b')
        return;
    if (e.KeyChar == '\r')
        SendKeys.Send("{TAB}");

    if (!((e.KeyChar >= '0') & (e.KeyChar <= '9')))
        e.Handled = true;
}

private void button1_Click(object sender, EventArgs e)
{
    if (textBox2.Text == "" || textBox3.Text == "" || textBox4.Text == "" || textBox8.Text ==
"" || textBox5.Text == "")
    {
        MessageBox.Show("Please enter marks for all subjects.");
        return;
    }

    int marathi = int.Parse(textBox2.Text);
    int hindi = int.Parse(textBox3.Text);
    int english = int.Parse(textBox4.Text);
    int maths = int.Parse(textBox8.Text);
    int science = int.Parse(textBox5.Text);

    if (!IsValid(marathi) || !IsValid(hindi) || !IsValid(english) || !IsValid(maths) ||
!IsValid(science))
    {
        MessageBox.Show("Marks must be between 0 and 100.");
        return;
    }

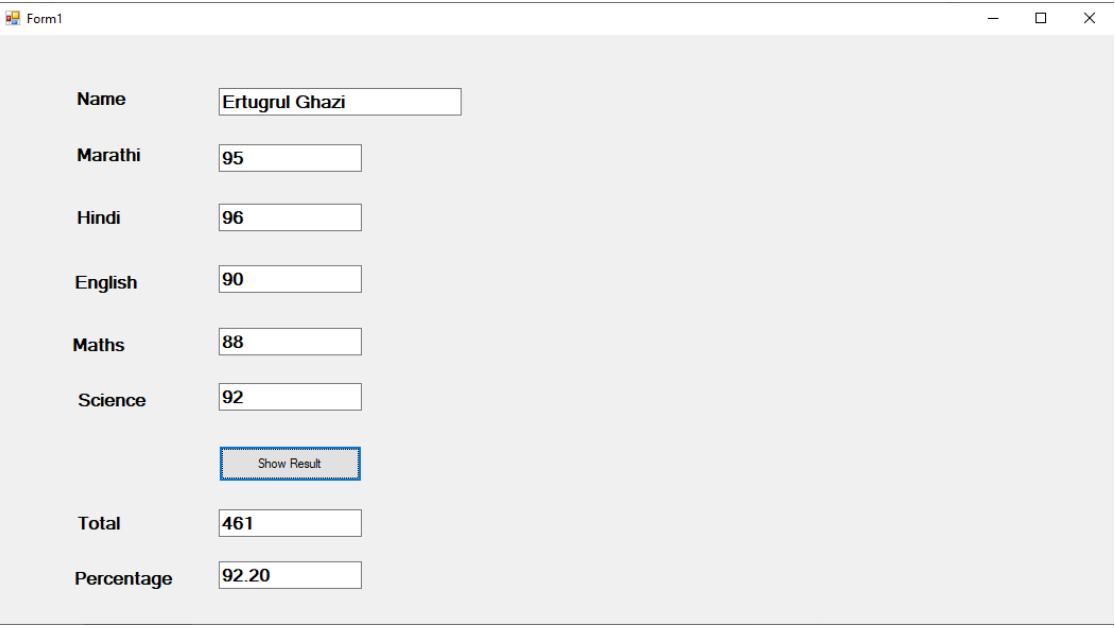
    int total = marathi + hindi + english + maths + science;
    float percentage = total / 5f;

    textBox6.Text = total.ToString();
    textBox7.Text = percentage.ToString("0.00");
}

private bool IsValid(int marks)
{
    return marks >= 0 && marks <= 100;
}
}

```

Output:-



The screenshot shows a Windows application window titled "Form1". Inside the window, there is a form with the following fields and values:

Subject	Score
Name	Ertugrul Ghazi
Marathi	95
Hindi	96
English	90
Maths	88
Science	92
<input type="button" value="Show Result"/>	
Total	461
Percentage	92.20

Experiment No. 4

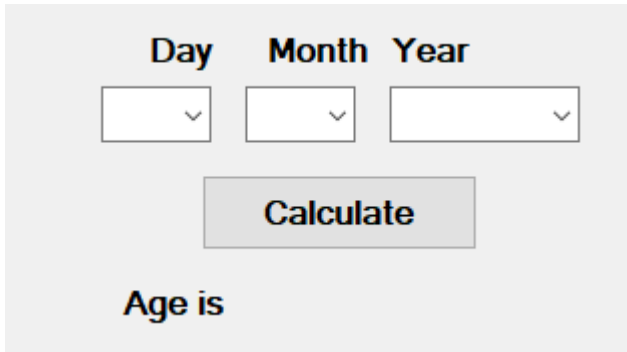
Name : Bilal Mirje

Rollno : 64

Div: A

Batch : A3

4. Write a program to calculate age :



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

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

        private void Form1_Activated(object sender, EventArgs e)
        {
            comboBox1.Items.Clear();
            comboBox2.Items.Clear();
            comboBox3.Items.Clear();

            for (int n = 1; n <= 31; n++)
                comboBox1.Items.Add(n);

            for (int n = 1; n <= 12; n++)
                comboBox2.Items.Add(n);

            for (int n = 2025; n >= 1945; n--)
                comboBox3.Items.Add(n);
        }

        private void button1_Click(object sender, EventArgs e)
        {
            int bd, bm, by, cd, cm, cy, ad, am, ay;
```



```

bd = Convert.ToInt32(comboBox1.SelectedItem);
bm = Convert.ToInt32(comboBox2.SelectedItem);
by = Convert.ToInt32(comboBox3.SelectedItem);

cd = DateTime.Today.Day;
cm = DateTime.Today.Month;
cy = DateTime.Today.Year;

ad = cd - bd;
am = cm - bm;
ay = cy - by;

if (ad < 0)
{
    am -= 1;
    ad += 30;
}
if (am < 0)
{
    ay -= 1;
    am += 12;
}
label1.Text = " Age is " + ay.ToString() + " Years " + am.ToString() + " Months " +
ad.ToString() + " Days ";
}
}
}

```

Output:-

The screenshot shows a Windows Form titled "Form1" with a light gray background. At the top, there are three dropdown menus labeled "Day", "Month", and "Year". The "Day" dropdown shows "20", the "Month" dropdown shows "5", and the "Year" dropdown shows "1996". Below these dropdowns is a blue button labeled "Calculate". At the bottom of the form, the text "Age is 28 Years 11 Months 14 Days" is displayed in a bold black font.

Experiment No. 5

Name : Bilal Mirje

Rollno : 64

Div: A

Batch : A3

5. Write a program to calculate age by creating class

a. Class must contain properties

April, 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
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	8	9	10	11

Today: 26-04-2025

Calculate

Age is

//Class Code:-

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

namespace Agecalculationusingclass
{
    class AgeCalculator
    {
        public int Years { get; private set; }
        public int Months { get; private set; }
        public int Days { get; private set; }

        public AgeCalculator(DateTime birthDate, DateTime currentDate)
        {
            int bd = birthDate.Day;
            int bm = birthDate.Month;
            int by = birthDate.Year;

            int cd = currentDate.Day;
            int cm = currentDate.Month;
            int cy = currentDate.Year;

            Days = cd - bd;
            Months = cm - bm;
            Years = cy - by;
        }
    }
}
```

```

        if (Days < 0)
        {
            Months -= 1;
            Days += 30; // Approximate month length
        }

        if (Months < 0)
        {
            Years -= 1;

            Months += 12;
        }
    }
}

```

//Main Code:-

```

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

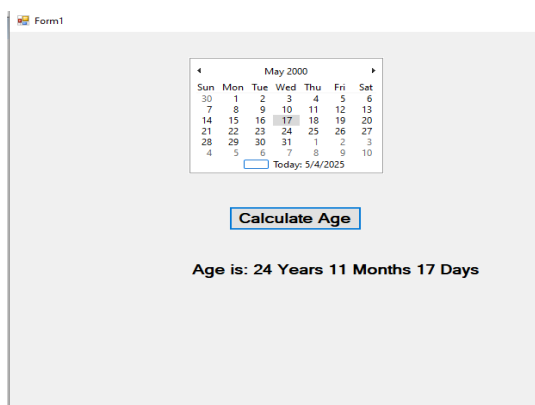
namespace Agecalculationusingclass
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();

            private void button1_Click(object sender, EventArgs e)
            {
                DateTime birthDate = monthCalendar1.SelectionStart;
                DateTime currentDate = DateTime.Today;

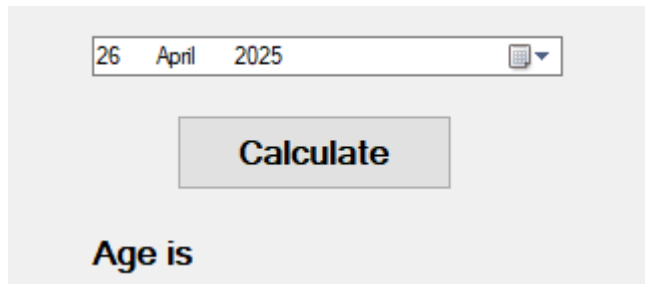
                AgeCalculator age = new AgeCalculator(birthDate, currentDate);
                label1.Text = "Age is: " + age.Years + " Years " + age.Months + " Months " + age.Days + "
Days";
            }
        }
    }
}

```

Output:-



Also for:



//ClassCode:

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

namespace Agecalculationusingdatetime
{
    class ClassAge
    {
        private string age = "";
        private DateTime dob;
        private int bd, bm, by;

        public DateTime DOB
        {
            set
            {
                dob = value;
            }
        }

        public string AGE
        {
            get
            {
                CalculateAge();
                return age;
            }
        }

        private void CalculateAge()
        {
            int cd = DateTime.Today.Day;
            int cm = DateTime.Today.Month;
            int cy = DateTime.Today.Year;

            bd = dob.Day;
            bm = dob.Month;
            by = dob.Year;

            int ad = cd - bd;
            int am = cm - bm;
            int ay = cy - by;

            if (ad < 0)
            {
                am -= 1;
                ad += DateTime.DaysInMonth(cy, (cm == 1) ? 12 : cm - 1);
            }
        }
    }
}
```

```

        if (am < 0)
        {
            ay -= 1;
            am += 12;
        }

        age = "Ageis:" + ay.ToString() + "Years" + am.ToString() + " Months" +
        ad.ToString() + " Days";
    }
}

```

//Main Code

```

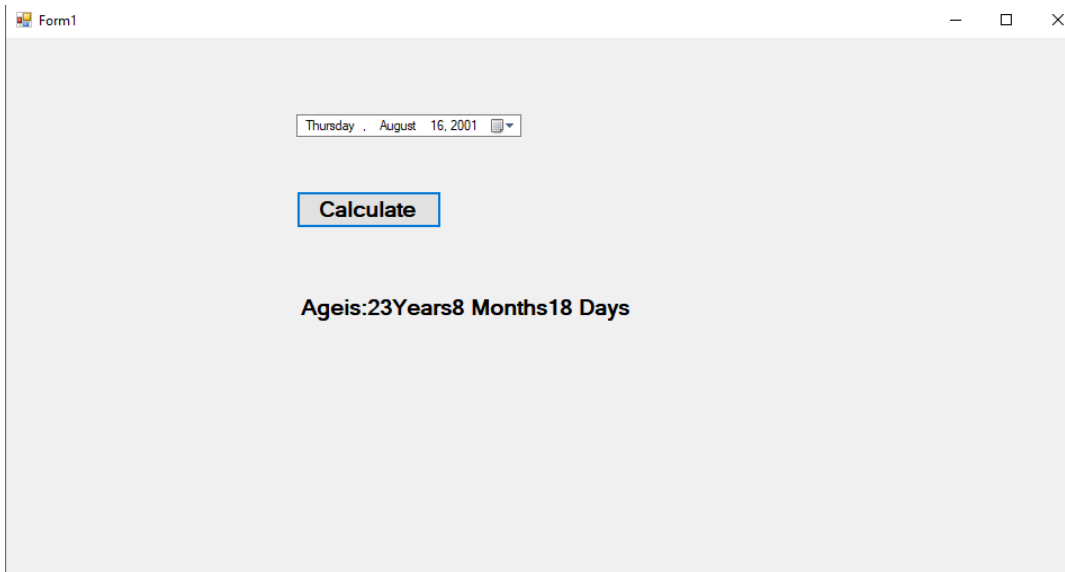
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

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

        private void button1_Click(object sender, EventArgs e)
        {
            DateTime dob = dateTimePicker1.Value;
            ClassAge obj = new ClassAge();
            obj.DOB = dob;
            label1.Text = obj.AGE;
        }
    }
}

```

Output:-



The screenshot shows a Windows application window titled "Form1". Inside the window, there is a date picker at the top displaying "Thursday, August 16, 2001". Below the date picker is a button labeled "Calculate". At the bottom of the window, the text "Ageis:23Years8 Months18 Days" is displayed.

Experiment No. 6

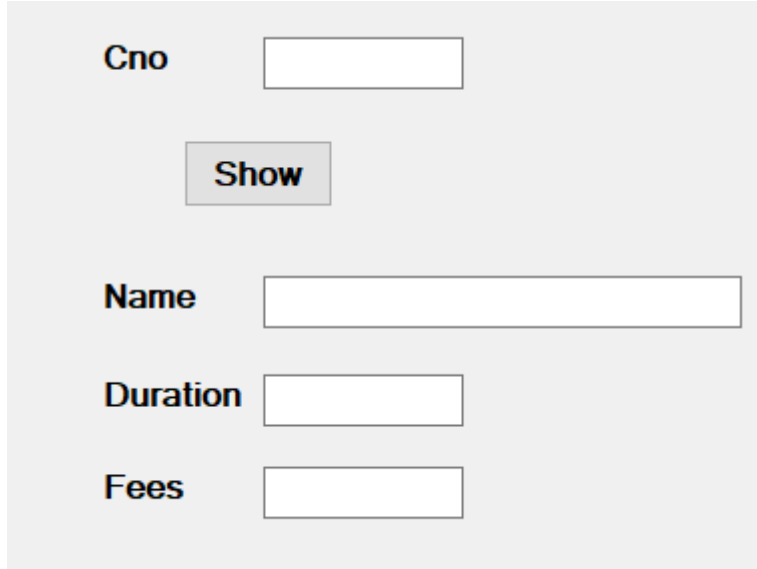
Name :- Bilal Mirje

Roll no :- 64

Div:- A

Batch:- A3

6. Write a program considering "MS – ACCESS" as backend



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.OleDb;
namespace Experiment6
{
    public partial class Form1 : Form
    {
        OleDbConnection cn;
        OleDbCommand co;
        OleDbDataReader dr;
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            cn = new OleDbConnection(@"Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\DELL\Documents\schooldb.accdb");
            cn.Open();
        }
    }
}
```

```

co = cn.CreateCommand();
co.CommandText = "SELECT * FROM course WHERE crno=" + textBox1.Text;

dr = co.ExecuteReader();

if (dr.HasRows)
{
    dr.Read();
    textBox2.Text = dr[2].ToString();
    textBox3.Text = dr[3].ToString();
    textBox4.Text = dr[4].ToString();
    dr.Close();
    cn.Close();
}
else
{
    MessageBox.Show("No data found", "Error", MessageBoxButtons.OK,
    MessageBoxIcon.Information);
    textBox1.Clear();
    textBox2.Clear();
    textBox3.Clear();
    textBox4.Clear();
    textBox1.Focus();
}
}
}
}

```

Output:-

The screenshot shows a Windows Form titled "Form1" with a light gray background. It contains four text boxes and one button. The first text box is labeled "Cno" and contains the value "103". Below it is a button labeled "Show". The second text box is labeled "Name" and contains the value "C#". The third text box is labeled "Duration" and contains the value "2". The fourth text box is labeled "Fees" and contains the value "3000".

Experiment No : 7

Q. Write a program considering "MS-ACCESS" as a backend.

The screenshot shows a Windows Forms application with a light gray background. On the left side, there are six labels with corresponding text boxes: 'Rno', 'Sname', 'Cname', 'Fees', 'Pfees', and 'Rfees'. A 'Show' button is located below the 'Rno' text box. At the bottom left, there is a 'Pay' button. On the right side, there is a 'groupBox1' containing three labels with text boxes: 'Rec No', 'Rec Date', and 'Rec Amount'. A 'Save' button is located at the bottom right of the 'groupBox1'.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.OleDb;
namespace WindowsFormExp71
{
    public partial class Form1 : Form
    {
        OleDbConnection cn;
        OleDbCommand co;
```



```
OleDbDataReader dr;
```

```
public Form1()
```

```
{
```

```
    InitializeComponent();
```

```
}
```

```
private void button1_Click(object sender, EventArgs e)
```

```
{
```

```
    try
```

```
    {
```

```
        cn = new OleDbConnection(@"Provider=Microsoft.ACE.OLEDB.12.0;
```

```
        Data Source=C:\Users\mirje\Documents\Database71.accdb");
```

```
        cn.Open();
```

```
        co = cn.CreateCommand();
```

```
        co.CommandText = "SELECT student.rno, student.sname, course.cname, course.fees,  
studentfees.pfees, studentfees.rfees FROM (course INNER JOIN student ON course.cno =  
student.cno) INNER JOIN studentfees ON student.rno = studentfees.rno WHERE  
student.rno=@rno";
```

```
        co.Parameters.AddWithValue("@rno", textBox1.Text);
```

```
        dr = co.ExecuteReader();
```

```
        if (dr.HasRows)
```

```
        {
```

```
            dr.Read();
```

```
            textBox2.Text = dr[1].ToString();
```

```
            textBox3.Text = dr[2].ToString();
```

```
            textBox4.Text = dr[3].ToString();
```

```
            textBox5.Text = dr[4].ToString();
```

```
            textBox6.Text = dr[5].ToString();
```

```
            dr.Close();
```

```
        }
```

```

        else
        {
            MessageBox.Show("No data found", "Error", MessageBoxButtons.OK,
MessageBoxIcon.Information);

            textBox1.Clear();

            textBox2.Clear();

            textBox3.Clear();

            textBox4.Clear();

            textBox5.Clear();

            textBox6.Clear();

            textBox1.Focus();
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show("An error occured : " + ex.Message, "Error", MessageBoxButtons.OK,
MessageBoxIcon.Information);
    }
    finally
    {
        dr.Close();
        cn.Close();
    }
}

private void button2_Click(object sender, EventArgs e)
{
    groupBox1.Visible = true;
}

private void button3_Click(object sender, EventArgs e)
{
    try
    {

```

```

using (OleDbConnection connection = new OleDbConnection())
{
    connection.ConnectionString = @"Provider=Microsoft.ACE.OLEDB.12.0;
                                Data Source=C:\Users\mirje\Documents\Database71.accdb";

    connection.Open();

    int recno = int.Parse(textBox7.Text);
    DateTime recdate = DateTime.Parse(textBox8.Text);
    int recamt = int.Parse(textBox9.Text);
    int rno = int.Parse(textBox1.Text);

    int totalFees = int.Parse(textBox4.Text);
    int oldPaid = int.Parse(textBox5.Text);
    if (oldPaid >= totalFees)
    {
        MessageBox.Show("Fees already fully paid.");
        return;
    }
    int newPaid = oldPaid + recamt;
    int remFees = totalFees - newPaid;

    string insertQuery = "INSERT INTO studentfees (recno, recdate, rno, recamt, pfees, rfees)
                        VALUES(?, ?, ?, ?, ?, ?)";
    using (OleDbCommand command = new OleDbCommand(insertQuery, connection))
    {
        command.Parameters.AddWithValue("?", recno);
        command.Parameters.AddWithValue("?", recdate);
        command.Parameters.AddWithValue("?", rno);
        command.Parameters.AddWithValue("?", recamt);
        command.Parameters.AddWithValue("?", newPaid);
        command.Parameters.AddWithValue("?", remFees);
    }
}

```

```
int result = command.ExecuteNonQuery();  
if (result > 0)  
{  
    MessageBox.Show("Fees Paid Successfully!");  
    textBox5.Text = newPaid.ToString();  
    textBox6.Text = remFees.ToString();  
    textBox7.Clear();  
    textBox8.Clear();  
    textBox9.Clear();  
}  
else  
{  
    MessageBox.Show("Insertion failed");  
}  
}  
}  
}  
catch (Exception ex)  
{  
    MessageBox.Show("An error occurred: " + ex.Message);  
}  
}  
}
```

Output :

The screenshot displays a Java Swing application window with a light gray background. On the left side, there is a form with the following labels and text input fields: "Rno" with "1", "Sname" with "Bilal", "Cname" with "java", "Fees" with "10000", "Pfees" with "7000", and "Rfees" with "3000". A "Show" button is located below the "Rno" field, and a "Pay" button is at the bottom left. On the right side, there is a "groupBox1" containing three text input fields: "Rec No" with "105", "Rec Date" with "2025-10-5", and "Rec Amount" with "1000". A "Save" button is positioned below these fields. In the bottom right corner, a small modal dialog box is open, featuring a close button (X) in the top right corner, the text "Fees Paid Successfully!" in the center, and an "OK" button at the bottom.

Field	Value
Rno	1
Sname	Bilal
Cname	java
Fees	10000
Pfees	7000
Rfees	3000

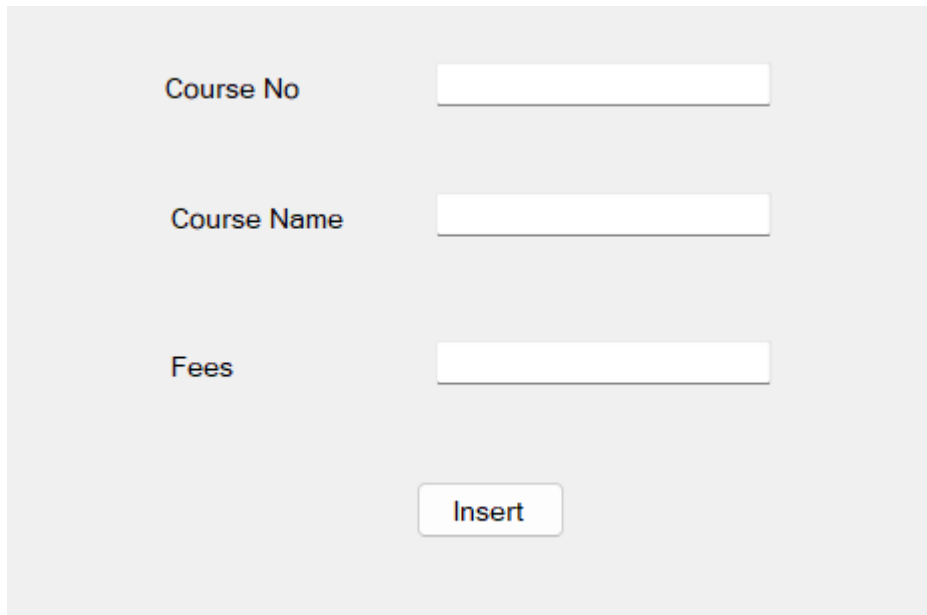
Field	Value
Rec No	105
Rec Date	2025-10-5
Rec Amount	1000

Dialog Box:

Fees Paid Successfully!

Experiment No : 8

Q. Write a program to call stored procedure using "MS-SQL SERVER" as a backend to insert record into course table.



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

namespace WindowsFormExp81
{
    public partial class Form1 : Form
    {
        string connectionString = @"Data Source=BILAL\SQLEXPRESS01;Initial Catalog=Exp81;Integrated
Security=True";

        public Form1()
        {
```

```
        InitializeComponent();
    }
    private void button1_Click(object sender, EventArgs e)
    {
        try
        {
            using (SqlConnection cn = new SqlConnection(connectionString))
            {
                cn.Open();
                using (SqlCommand cmd = new SqlCommand("InsertCourse", cn))
                {
                    cmd.CommandType = CommandType.StoredProcedure;

                    cmd.Parameters.AddWithValue("@cno", int.Parse(textBox1.Text));
                    cmd.Parameters.AddWithValue("@cname", textBox2.Text);
                    cmd.Parameters.AddWithValue("@fees", int.Parse(textBox3.Text));
                    int rows = cmd.ExecuteNonQuery();
                    if (rows > 0)
                        MessageBox.Show("Course inserted successfully.");
                    else
                        MessageBox.Show("Insert failed.");
                }
            }
        }
        catch (Exception ex)
        {
            MessageBox.Show("Error: " + ex.Message);
        }
    }
}
```

Procedure :

```
CREATE PROCEDURE InsertCourse
```

```
    @cno INT,
```

```
    @cname NVARCHAR(100),
```

```
    @fees INT
```

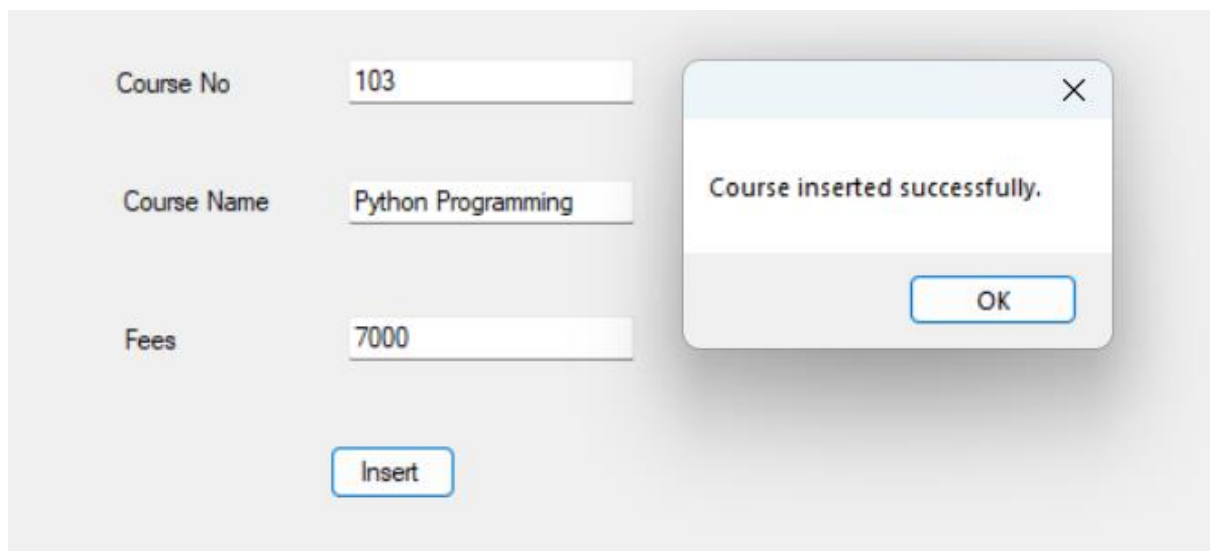
```
AS
```

```
BEGIN
```

```
    INSERT INTO course (cno, cname, fees)
```

```
    VALUES (@cno, @cname, @fees);
```

```
END
```

Output :

The screenshot displays a web form for inserting a course. It includes three input fields: 'Course No' with the value '103', 'Course Name' with the value 'Python Programming', and 'Fees' with the value '7000'. Below these fields is an 'Insert' button. To the right of the form, a modal dialog box is open, displaying the message 'Course inserted successfully.' and an 'OK' button.

Results		Messages	
	cno	cname	fees
1	101	Java Development	15000
2	102	cpp	4000
3	103	Python Programming	7000

Experiment No : 9

Q. Write a program to call stored procedure using "MS-SQL SERVER" as a backend to get remaining fees.

The screenshot shows a Windows Forms application with a light gray background. It contains five text boxes for input, each with a label to its left: 'Roll No', 'SName', 'Fees', 'PFees', and 'RFees'. A button labeled 'Get Remaining Fees' is positioned between the 'Roll No' and 'SName' input fields.

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

namespace WindowsFormsExp9
{
    public partial class Form1 : Form
    {
        string connectionString = @"Data Source=BILAL\SQLEXPRESS01;Initial Catalog=Exp9;Integrated
Security=True";
```

```
public Form1()
{
    InitializeComponent();
}

private void button1_Click(object sender, EventArgs e)
{
    try
    {
        using (SqlConnection cn = new SqlConnection(connectionString))
        {
            cn.Open();

            SqlCommand cmd = new SqlCommand("GetRemainingFees", cn);
            cmd.CommandType = CommandType.StoredProcedure;

            cmd.Parameters.AddWithValue("@rno", int.Parse(textBox1.Text));

            SqlDataReader dr = cmd.ExecuteReader();
            if (dr.Read())
            {
                textBox2.Text = dr["sname"].ToString();
                textBox3.Text = dr["cfees"].ToString();
                textBox4.Text = dr["pfees"].ToString();
                textBox5.Text = dr["rfees"].ToString();
            }
            else
            {
                MessageBox.Show("Record not found.");
            }
            dr.Close();
        }
    }
}
```

```
    }  
    catch (Exception ex)  
    {  
        MessageBox.Show("Error: " + ex.Message);  
    }  
}  
}
```

PROCEDURE :

CREATE PROCEDURE GetRemainingFees

 @rno INT

AS

BEGIN

 SELECT rno, sname, cfees, pfees, (cfees - pfees) AS rfees

 FROM studentfees

 WHERE rno = @rno;

END;

Output :

Roll No	<input type="text" value="1"/>
<input type="button" value="Get Remaining Fees"/>	
SName	<input type="text" value="Bilal Mirje"/>
Fees	<input type="text" value="50000"/>
PFees	<input type="text" value="5000"/>
RFees	<input type="text" value="45000"/>

Results		Messages		
	no	sname	cfees	pfees
1	1	Bilal Mirje	50000	5000
2	2	Kaif Mulla	60000	60000
3	3	Maaj	45000	30000

Experiment No : 10

Q. Write a program for

Show Data

Cno

CName

Duration

Fees

Search on Name Show

Search on Cno Show

Fees Show

Clear Filter

First Previous Next Last

Add Save Cancel

	Cno	CName	Duration	Fees
*				

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
namespace WindowsFormExp10
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
    }
}
```

```
private void Form1_Load(object sender, EventArgs e)
{
    textBox1.DataBindings.Clear();
    textBox2.DataBindings.Clear();
    textBox3.DataBindings.Clear();
    textBox4.DataBindings.Clear();

    textBox1.DataBindings.Add("Text", courseBindingSource, "Cno");
    textBox2.DataBindings.Add("Text", courseBindingSource, "CName");
    textBox3.DataBindings.Add("Text", courseBindingSource, "Duration");
    textBox4.DataBindings.Add("Text", courseBindingSource, "Fees");
}

private void button6_Click(object sender, EventArgs e)
{
    courseBindingSource.MoveLast();
    int cno = Convert.ToInt16(textBox1.Text) + 1;
    courseBindingSource.AddNew();
    textBox1.Text = cno.ToString();
    textBox2.Focus();
}

private void button7_Click(object sender, EventArgs e)
{
    try
    {
        this.Validate();
        courseBindingSource.EndEdit();
        courseTableAdapter.Update(dataSet1.Course);
        MessageBox.Show("Record Saved Successfully");
    }
}
```

```
        catch (Exception ex)
        {
            MessageBox.Show("Error: " + ex.Message);
        }
    }

    private void button8_Click(object sender, EventArgs e)
    {
        courseBindingSource.CancelEdit();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        courseBindingSource.MoveFirst();
    }

    private void button3_Click(object sender, EventArgs e)
    {
        courseBindingSource.MovePrevious();
    }

    private void button4_Click(object sender, EventArgs e)
    {
        courseBindingSource.MoveNext();
    }

    private void button5_Click(object sender, EventArgs e)
    {
        courseBindingSource.MoveLast();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        courseTableAdapter.Fill(dataSet1.Course);
    }

    private void button9_Click(object sender, EventArgs e)
    {

```

```
int pos = courseBindingSource.Find("Cno",textBox6.Text);
if (pos == -1)
{
    MessageBox.Show("No such record");
    textBox6.Clear();
}
else
{
    courseBindingSource.Position = pos;
}
}

private void button11_Click(object sender, EventArgs e)
{
    int pos = courseBindingSource.Find("CName", textBox5.Text);
    if (pos == -1)
    {
        MessageBox.Show("No such record");
        textBox5.Clear();
    }
    else
    {
        courseBindingSource.Position = pos;
    }
}

private void button12_Click(object sender, EventArgs e)
{
    int pos = courseBindingSource.Find("Fees", textBox7.Text);
    if (pos == -1)
    {
        MessageBox.Show("No such record");
```



```
        textBox7.Clear();
    }
    else
    {
        courseBindingSource.Position = pos;
    }
}

private void textBox5_TextChanged(object sender, EventArgs e)
{
    courseBindingSource.Filter = "CName like '" + textBox5.Text + "%'";
}

private void textBox7_TextChanged(object sender, EventArgs e)
{
    courseBindingSource.Filter = "Fees >= " + textBox7.Text;
}

private void button10_Click(object sender, EventArgs e)
{
    courseBindingSource.RemoveFilter();
}

}

}
```

Output :

Show Data

Cno

1

CName

Java

Duration

3 Months

Fees

12000

Search on Name

Show

Search on Cno

Show

Fees

Show

Clear Filter

First

Previous

Next

Last

Add

Save

Cancel

	Cno	CName	Duration
▶	1	Java	3 Months
	2	Python	2 Months
	3	C#	4 Months
	4	Web Dev	3 Months
	5	.Net	6 month
	6	PHP	9 Month

Show Data

Cno

7

CName

GoLang

Duration

11 Month

Fees

13000

Search on Name

Show

Search on Cno

Show

Fees

Show

Clear Filter

First

Previous

Next

Last

Add

Save

Cancel

Record Saved Successfully

OK

	Cno	CName	Duration
	3	C#	4 Months
	4	Web Dev	3 Months
	5	.Net	6 month
	6	PHP	9 Month
▶	7	GoLang	11 Month
*			

Show Data

Cno

4

Search on Name

Show

CName

Web Dev

Search on Cno

4

Show

Duration

3 Months

Fees

Show

Fees

13000

Clear Filter

First

Previous

Next

Last

Add

Save

Cancel

	Cno	CName	Duration
	3	C#	4 Months
▶	4	Web Dev	3 Months
	5	.Net	6 month
	6	PHP	9 Month
	7	GoLang	11 Month
*			

Show Data

Cno

2

CName

Python

Duration

2 Months

Fees

10000

Search on Name

p

Show

Search on Cno

Show

Fees

Show

Clear Filter

First

Previous

Next

Last

Add

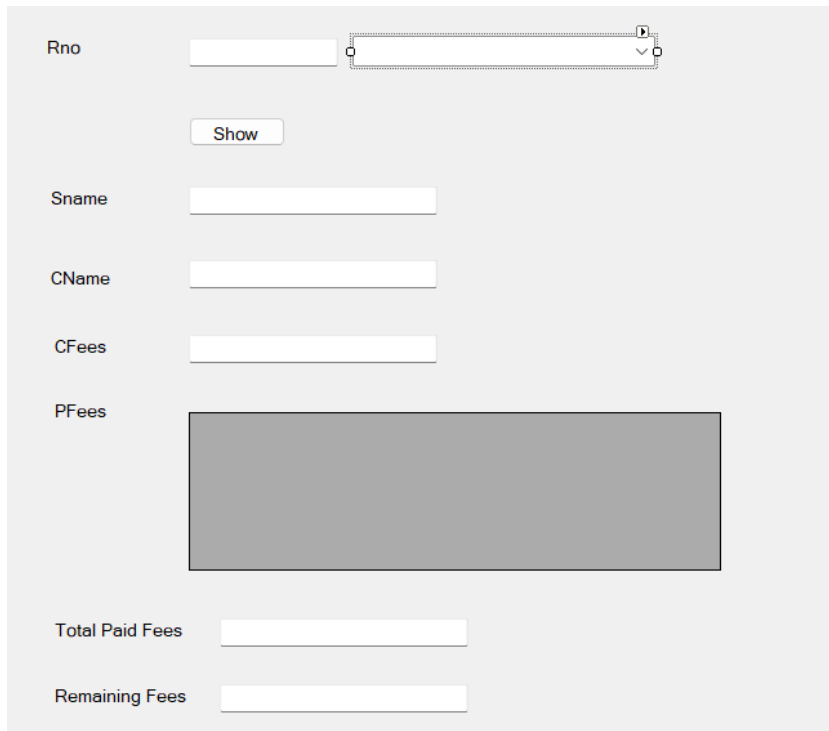
Save

Cancel

	Cno	CName	Duration
▶	2	Python	2 Months
	6	PHP	9 Month
*			

Experiment No : 11

Q. Write a code for given form use MySql as a Backend



```
using System;
```

```
using System.Data;
```

```
using System.Windows.Forms;
```

```
using MySql.Data.MySqlClient;
```

```
namespace WindowsFormExp11
```

```
{
```

```
    public partial class Form1 : Form
```

```
    {
```

```
        string connStr = "server=localhost;user=root;database=studentdb;";
```

```
        public Form1()
```

```
        {
```

```
            InitializeComponent();
```

```
        }
```

```

private void Form1_Load(object sender, EventArgs e)
{
    try
    {
        using (MySqlConnection conn = new MySqlConnection(connStr))
        {
            conn.Open();

            MySqlCommand cmd = new MySqlCommand("SELECT Rno FROM student_fees", conn);
            MySqlDataReader dr = cmd.ExecuteReader();
            while (dr.Read())
            {
                comboBox1.Items.Add(dr["Rno"].ToString());
            }
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show("Error loading Rno values: " + ex.Message);
    }
}

```

```

private void button1_Click(object sender, EventArgs e)
{
    int rno = 0;
    if (!string.IsNullOrEmpty(comboBox1.Text))
        int.TryParse(comboBox1.Text, out rno);
    else if (!string.IsNullOrEmpty(textBox1.Text))
        int.TryParse(textBox1.Text, out rno);

    if (rno == 0)
    {

```

```
        MessageBox.Show("Please enter or select a valid Roll Number.");
        return;
    }
    try
    {
        using (MySqlConnection conn = new MySqlConnection(connStr))
        {
            conn.Open();

            MySqlCommand cmd = new MySqlCommand("GetStudentFeeDetails", conn);
            cmd.CommandType = CommandType.StoredProcedure;
            cmd.Parameters.AddWithValue("@input_rno", rno);

            MySqlDataAdapter da = new MySqlDataAdapter(cmd);
            DataTable dt = new DataTable();
            da.Fill(dt);

            if (dt.Rows.Count > 0)
            {
                DataRow row = dt.Rows[0];

                textBox1.Text = row["Rno"].ToString();
                textBox2.Text = row["Sname"].ToString();
                textBox3.Text = row["CName"].ToString();
                textBox4.Text = row["CFees"].ToString();
                textBox5.Text = row["PFees"].ToString();
                textBox6.Text = row["RemainingFees"].ToString();

                dataGridView1.DataSource = dt;
            }
            else
            {
```

```
        MessageBox.Show("Record not found.");
    }
}
}
catch (Exception ex)
{
    MessageBox.Show("Error fetching data: " + ex.Message);
}
}
}
}
```

PROCEDURE :

DELIMITER //

CREATE PROCEDURE GetStudentFeeDetails(IN input_rno INT)

BEGIN

SELECT

Rno, Sname, CName, CFees, PFees,

(CFees - PFees) AS RemainingFees

FROM student_fees

WHERE Rno = input_rno;

END //

DELIMITER ;

Output :

Rno

Sname

CName












CFees

PFees

	Rno	Sname	CName
▶	1	Bilal	Java
*			

Total Paid Fees

Remaining Fees

				Rno	Sname	CName	CFees	PFees
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	Bilal	Java	10000.00	5000.00
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Maaj	Python	12000.00	4000.00
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	Mohseen	C#	7000.00	2000.00
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	Kaif	php	8000.00	3000.00