Ex.No1

CONSOLE INPUT

AIM:- To accept a character from console and check the case of the character.

PROCEDURE:-

- 1. Open Visual Studio by clicking
 - Start All Programs Microsoft Visual Studio.
- 2. To create a Console application
 - Select Projects New project and click on Console application icon.
- 3. In the name text box type the name of the Console application and click OK.
- 4. The screen changes to coding window.
- 5. Type the code inside Static void Main(string[] args)
- 6. Press F5 to execute the application.

CODING:-

```
static void Main(string[] args)
    {
      Console.WriteLine("Enter a Alphabet");
      char ch = Convert.ToChar(Console.ReadLine());
       if(char.IsUpper(ch))
       {
                   Console.WriteLine("Upper case");
       }
      else if(char.IsLower(ch))
            Console.WriteLine("Lower case");
       }
      else
       {
          Console.WriteLine("Other character");
       Console.ReadLine();
OUTPUT:-
```

RESULT:- Thus we have created a console application to check whether the given character is upper case or lower case or other character.

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EX.NO : 2	CHECKING FOR VOWELS
DATE:	

AIM:- To write a program to accept any character from keyboard and display whether it is vowel or not.

PROCEDURE:-

- 1) Open Visual Studio by clicking
 - Start All Programs Microsoft Visual Studio.
- 2) To create a Windows application

Select File New project and click on Windows application icon.

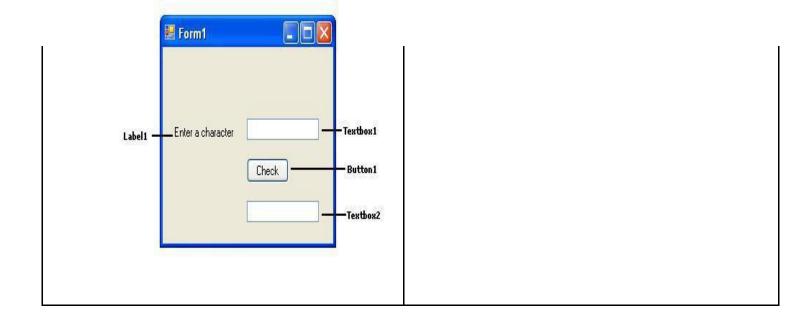
- 3) A new form is created, place a Label , 2 Textboxes and a button in the form.
- 4) Double click on the button and add the following code in the **CLICK()** event of the button.
- 5) Press F5 to execute the application.

CODING:-

```
private void button1_Click(object sender, EventArgs e)
{
    string c;
    c=textBox1.Text.ToUpper();
    if (c == "A" || c == "E" || c == "I" || c == "O" || c == "U")
    {
        textBox2.Text="VOWEL";
    }
    else
    {
        textBox2.Text="NOT VOWEL";
    }
}
```

Form design

Output



RESULT:- Thus we have created a windows application to check whether the given character is vowel or not.

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EX.NO : 3	
	CONVERTING CASE OF THE CHARACTERS
DATE:	

AIM:- To write a C# .NET program to accept a string and convert the case of the characters.

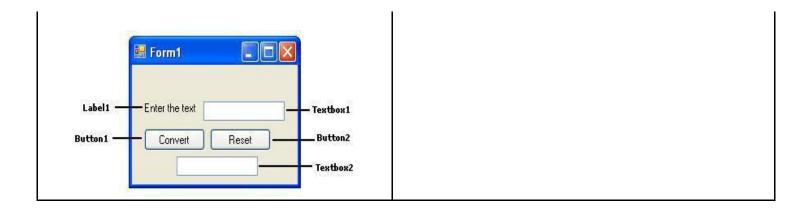
PROCEDURE:

- 1. Open the C# windows application project and add a form to it.
- 2. Add a Label, 2 Text Boxes and 2 buttons to the form.
- 3. Double click on Button1 and type the code in click() event.
- 4. Double click on Button2 and type the code in click() event.
- 5. After adding the coding run the program by pressing 'F5'.

CODING:-

```
private void button1_Click(object sender, EventArgs e)
     {
        String s;
        string outputString = string.Empty;
       s = textBox1.Text;
       foreach (char c in s)
           if (Char.IsLower(c))
           {
             outputString+=char.ToUpper(c);
             textBox2.Text = outputString;
           }
           else
             outputString += char.ToLower(c);
             textBox2.Text = outputString;
           }
        }
 }
private void button2_Click(object sender, EventArgs e)
       textBox1.Clear();
       textBox2.Clear();
     }
```

Form Design:	Output:



RESULT:- Thus we have created a windows application to convert the case of the given character.

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EX.NO : 4	
	IMPLEMENTING A TEXT EDITOR

DATE:

AIM:- To develop a menu based C# .net application to implement a text editor with cut, copy, paste, save and close operation.

PROCEDURE:-

- 1. Open Microsoft Visual studio and create a new windows application
- 2. Add a menu strip from the toolbar and type the names of the menu as follows:

```
File -> New , Save As, Close Edit -> Cut, Copy, Paste Exit -> End
```

3. Include a Label, Textbox and a button in the form.

Edit the following code in the Load event of the Form1
label1.Visible = false;

textBox1.Visible = false;

button1.Visible = false;

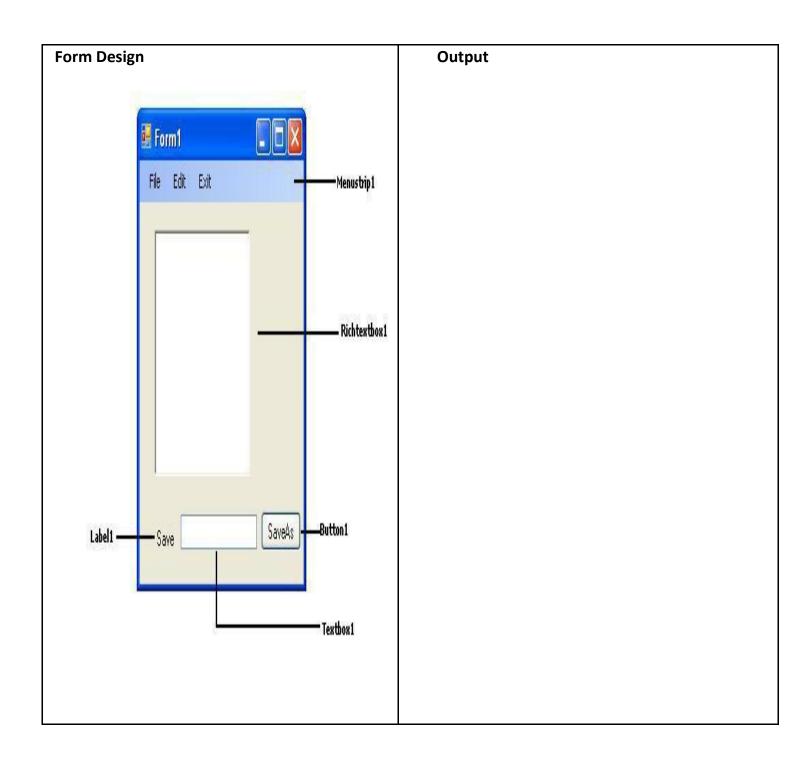
- 4. Edit the following code in the click event of the **New** option in the <u>file</u> menu **richTextBox1.Clear()**;
- Edit the following code in the click event of the SaveAs option in the <u>file</u> menu label1.Visible = true;

```
textBox1.Visible = true;
button1.Visible = true;
```

 Edit the following code in the click event of the Button 1. richTextBox1.SaveFile(textBox1.Text);

```
label1.Visible = false;
textBox1.Visible = false;
button1.Visible = false;
```

- 7. Edit the following code in the click event of the **Close** option in the file menu. **richTextBox1.Clear()**;
- 8. Edit the following code in the click event of the **Cut** option in the edit menu. **richTextBox1.Cut()**;
- 9. Edit the following code in the click event of the **Copy** option in the edit menu. **richTextBox1.Copy()**;
- 10. Edit the following code in the click event of the **Paste** option in the edit menu. **richTextBox1.Paste()**;
- 11. Edit the following code in the click event of the **end** option in the exit menu. **Close()**;
- 12. Run the application.



RESULT:- Thus we have created a windows application to convert the case of the given character.

EX.NO : 5	
	IMPLEMENTING A CALCULATOR

DATE:

AIM:- To write a C# program to implement a calculator with memory and recall operations.

PROCEDURE:-

- 1. Open Microsoft Visual studio and create a new Windows application .
- 2. Include a textbox and 18 buttons in the form.
- Edit the following code inside the public partial class form1 before all the sub functions

```
double a,
m,result; char op;
```

- Edit the following code in click event of the cancel button textBox1.Clear();
- Edit the following code in click event of the memory button m = Convert.ToInt32(textBox1.Text); textBox1.Clear();
- Edit the following code in click event of the recall button textBox1.Text = m.ToString();
- Edit the following code in click event of 1 button textBox1.AppendText("1");
- Edit the following code in click event of 2 button textBox1.AppendText("2");
- 6. Similarly edit the corresponding code for **3,4,5,6,7,8,9** and **0 buttons**
- Edit the following code in click event of + button
 a = Convert.ToDouble(textBox1.Text);

```
op = '+';
textBox1.Clear();
```

Edit the following code in click event of - button
 a = Convert.ToDouble(textBox1.Text);
 op = "-"

textBox1.Clear()

9. Edit the following code in click event of * button a = Convert.ToDouble(textBox1.Text); op = "*"

textBox1.Clear()

```
11. Edit the following code in click event of = button.
switch(op)
{
    case '+':
    {
        result = a+Convert.ToInt32(textBox1.Text );
        textBox1.Text = Convert.ToString(result);
        break;
    }
        case '-':
    {
        result = a - Convert.ToInt32(textBox1.Text);
    }
}
```

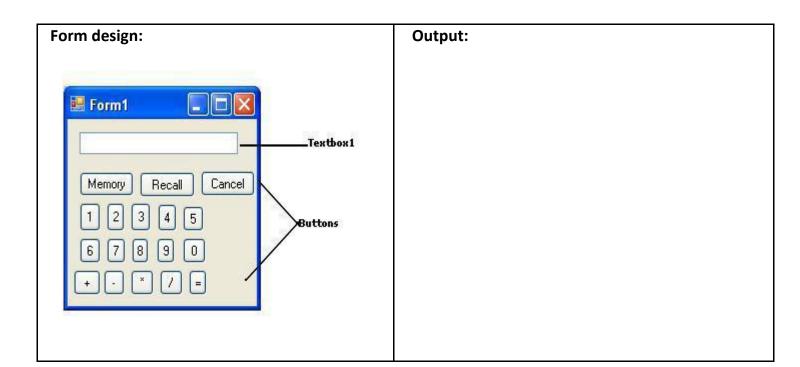
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```
textBox1.Text = Convert.ToString(result);
break;
}

case '*':
{
    result = a * Convert.ToInt32(textBox1.Text);
    textBox1.Text = Convert.ToString(result);

    break;
}
    case '/':
{
        result = a / Convert.ToInt32(textBox1.Text);
        textBox1.Text = Convert.ToString(result);
        break;
}
}
```

12. Run the application



EX.NO : 6	
	DISPLAYING DATE USING CALENDAR CONTROL

DATE:

ATM:-

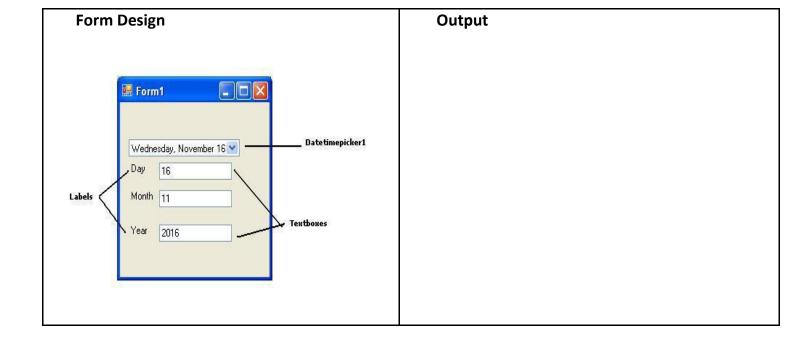
4.

To develop a form in C# .net to pick a date from calendar control and display the day, month, year details in separate text boxes.

PROCEDURE:-

- 1. Open Microsoft visual studio and create a new windows application.
- 2. Drag a DateTimePicker control and a button from the toolbox.
- 3. Double click on the form and type the following code.

```
private void Form1_Load (object sender, EventArgs e)
    {
      textBox1.Text = Convert.ToString (dateTimePicker1.Value.Day);
      textBox2.Text = Convert.ToString(dateTimePicker1.Value.Month);
      textBox3.Text = Convert.ToString(dateTimePicker1.Value.Year);
    }
      Double click on the button and type the following code:
    private void dateTimePicker1_ValueChanged(object sender, EventArgs e)
      textBox1.Text = Convert.ToString(dateTimePicker1.Value.Day);
      textBox2.Text = Convert.ToString(dateTimePicker1.Value.Month);
      textBox3.Text = Convert.ToString(dateTimePicker1.Value.Year);
    }
```



RESULT:- Thus we have created a C# windows application to implement a DateTime Picker.

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EX.NO : 7	
	TIMER BASED QUIZ

DATE:

AIM:-To develop a C# .net application to perform timer based quiz .

Procedure:

- 1. Open Microsoft Visual studio and create a new window application.
- 2. Add a label, group box, 3 radio buttons, timer and a button in the form.

Edit the following code inside the **class Form1** before all the sub functions.

```
Dim Quest(4, 3), Ans(4, 1) As String
Dim i As Integer = -1
```

3. Edit the following code in the load event of **Form1.**

```
Quest(0, 0) = "In whick year India won the criket world cup?"
Quest(0, 1) = "1973"
Quest(0, 2) = "1983"
Quest(0, 3) = "1987"
Quest(1, 0) = "Scanner is a ______ device"
Quest(1, 1) = "Input"
Quest(1, 2) = "Output"
Quest(1, 3) = "I/O"
Quest(2, 0) = "Which one of the following is a browser?"
Quest(2, 1) = "Visual Basic"
Quest(2, 2) = "Java"
Quest(2, 3) = "InternetExplorer"
                     _____ is the desciple of Jesus
Quest(3, 0) = "_____
                     came to India?"
Quest(3, 1) = "Thomas"
Quest(3, 2) = "Andrew"
Quest(3, 3) = "Philip"
Quest(4, 0) = "Tsunami hit India on _____
Quest(4, 1) = "24-12-2006"
Quest(4, 2) = "26-12-2004"
Quest(4, 3) = "26-12-2006"
Ans(0, 0) = "1983"
Ans(1, 0) = "Input"
Ans(2, 0) = "InternetExplorer"
Ans(3, 0) = "Thomas"
Ans(4, 0) = "26-12-2004"
```

Timer1.Enabled = True

```
Button1.Enabled = False
```

3. Edit the following code in Tick event of **Timer1**

```
i = i + 1

If (i = 5) Then
Timer1.Enabled = False
Button1.Enabled = True

Else

RadioButton1.Checked = False
RadioButton2.Checked = False
```

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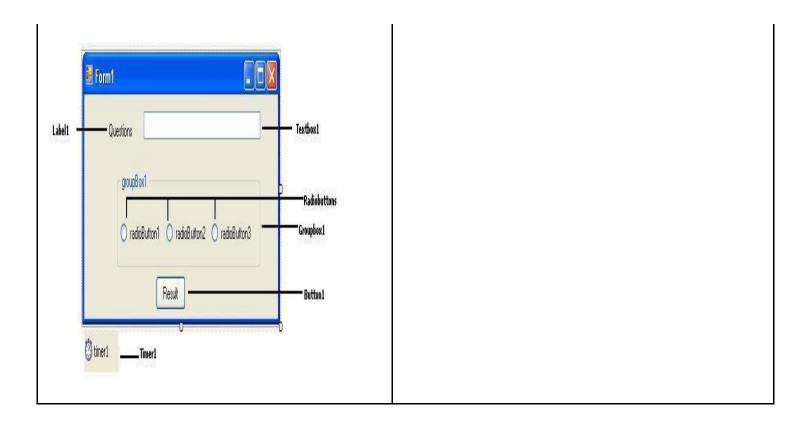
```
RadioButton3.Checked = False
        TextBox1.Text = Quest(i, 0)
        RadioButton1.Text = Quest(i, 1)
        RadioButton2.Text = Quest(i, 2)
        RadioButton3.Text = Quest(i, 3)
        End If
 5. Edit the following code
                                  RadioButton1.
        in the
        CheckedChanged
        event of Ans(i, 1)
        RadioButton1.Text
 6. Edit the following code in the CheckedChanged event of RadioButton2.
        Ans(i, 1) = RadioButton2.Text
 7. Edit the following code in the CheckedChanged event of RadioButton3.
        Ans(i, 1) = RadioButton3.Text
1. Edit the following code in the Click event of the Button1.
        Dim j As Integer
        Dim count As Integer = 0
        For j = 0 To 4
        If (Ans(j, 0) = Ans(j, 1)) Then
        count += 1
        End If
```

9. Run the Application.

Next

Form design:	Output:
--------------	---------

MsgBox("You have scored " & count & "marks")



RESULT:- Thus we have created a C# application for a timer based quiz program.

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EX.NO : 8	
	IMPLEMENTING A COMMON DIALOG BOX

DATE:

Aim: To develop a C#.Net application using the File and Directory controls to implement a common dialog box.

Procedure:

- 1. Open Microsoft Visual Studio and create a new Windows Application.
- 2. Create a windows form and drag a Openfiledialog and Folderbrowserdialog and 2 buttons into the form.
- 3. Double click on the **Button1** and type the following code.

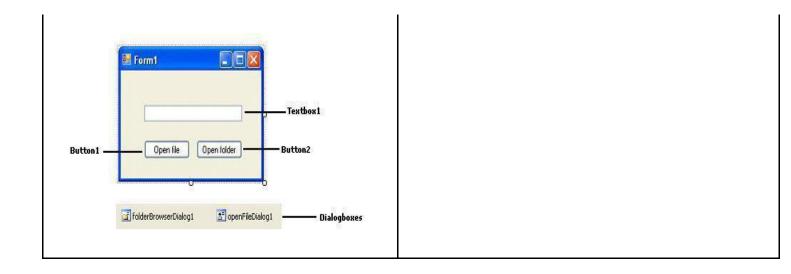
```
OpenFileDialog dlg = new OpenFileDialog();
    dlg.ShowDialog();
if (dlg.ShowDialog() == DialogResult.OK)
{
    string fileName;
    fileName = dlg.FileName;
    textBox1.Text =fileName;
}
```

4. Double click on **Button2** and type the following code.

```
FolderBrowserDialog dlg = new
FolderBrowserDialog(); dlg.ShowDialog();
if (dlg.ShowDialog() == DialogResult.OK)
{
    string folderName;
    folderName = dlg.SelectedPath;
    textBox1.Text = folderName;
}
```

5. Run the Application.

Form Design:	Output:
--------------	---------



RESULT:- Thus we have created a C# windows application to implement a common dialog box.

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```
EX.NO: 9

CREATING A DATABASE APPLICATION USING ADO .NET
```

DATE:

Aim: To develop a database application to store the details of students using ADO.NET.

Procedure:

}

1. Create a table stud in a SQL server database student.(Using SQL Query Analyzer)

Create table stud(regno varchar(10), Sname varchar(10), dept varchar(15));

- 2. Open Microsoft Visual studio and create a new windows application.
- 3. Add 3 labels, 3 textboxes and a button into the form.

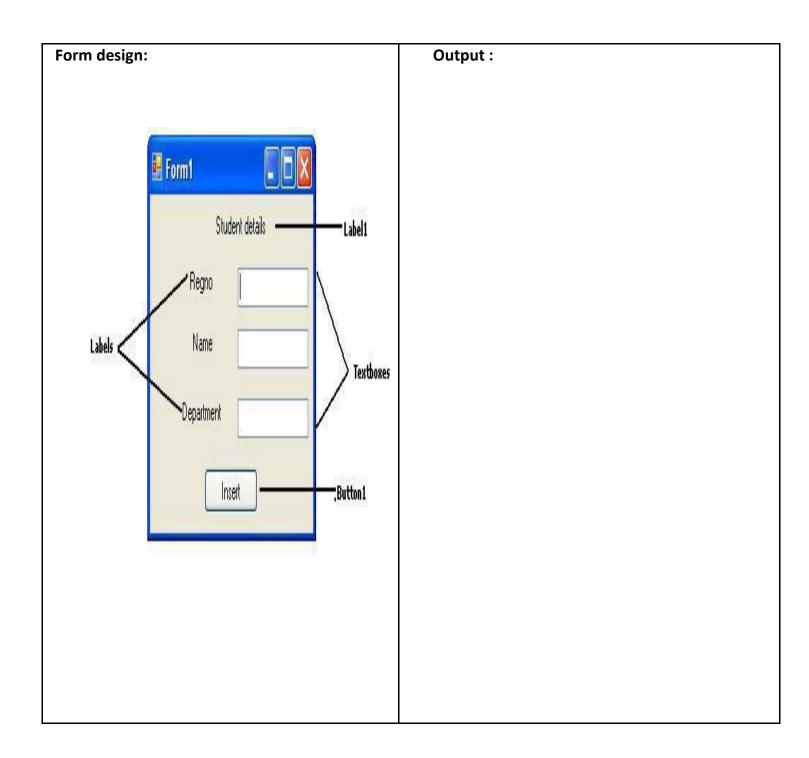
Edit the following line at the top of the coding before any other code. **using System.Data.SqlClient**;

4. Edit the following code inside the **class form** before all the sub functions.

```
SqlConnection con=new SqlConnection();
                     SqlCommand com=new SqlCommand();
             5. Edit the following code in the load event of ex9 Form1.
    con.ConnectionString = "Data source=cc1sys22;Integrated
                 security=true;Database=pubs";
                            com.Connection = con;
                            con.Open();
              6. Edit the following code in the click event of the
Button1. private void button1_Click(object sender, EventArgs e)
     {
       if (textBox1.Text =="" || textBox2 .Text =="" || textBox3 .Text =="")
         MessageBox.Show("Please fill all the details");
       }
       else
{
     com.CommandText = "insert into stud values("" + textBox1.Text + "',"" + textBox2.Text +
                 "','" + textBox3.Text + "')";
         com.ExecuteNonQuery();
         MessageBox.Show("1 record is inserted");
                     textBox1.Clear()
                     textBox2.Clear()
                     textBox3.Clear()
              }
```

7.Run the Application.

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RESULT: Thus we have created an ADO .Net application using C# .Net to insert a record into the database.

EX.NO : 10	DATABASE APPLICATION TO INSERT AND MODIFY DATA
DATE:	USING ADO .NET

Aim: To develop a database application using ADO.NET with insert, delete and update applications.

Procedure:

- 1. Create a table stud in a SQL server database student. (Using SQL Query Analyzer) Create table stud(regno varchar(10),Sname varchar(10),dept varchar(15));
- 2. Open Microsoft Visual studio and create a new Windows Applications.
- 3. Add a combobox, 2 textboxes and 4 buttons in the form.
- 4. Edit the following line at the top of the coding before any other code.

Imports System.Data.SqlClient

5. Edit the following code inside the **class Form1** before all the sub functions.

```
SqlConnection con = new SqlConnection();
SqlCommand com = new SqlCommand();
SqlDataReader dr, dr1,dr2;
```

6. Edit the following code in the Load event of **Form1**

```
con.ConnectionString = "Data source=cc1sys22; Integrated security=true;Database=pubs";
   com.Connection = con;
   con.Open();
   com.CommandText = "select * from pubs";

   dr = com.ExecuteReader();
   while(dr.Read())
   {
      comboBox1.Items.Add(dr.GetString(0));
   }
   dr.Close();
```

7. Edit the following code in the click event of the **Button1.**

textBox2.Clear();

8. Edit the following code in the click event of the **Button2.**

```
com.CommandText = "select * from pubs where regno='" + comboBox1.SelectedItem + """;
    dr = com.ExecuteReader();
    if (dr.Read())
    {
        textBox2.Text = dr.GetString(1);
        textBox3.Text = dr.GetString(2);
    }
    dr.Close();
```

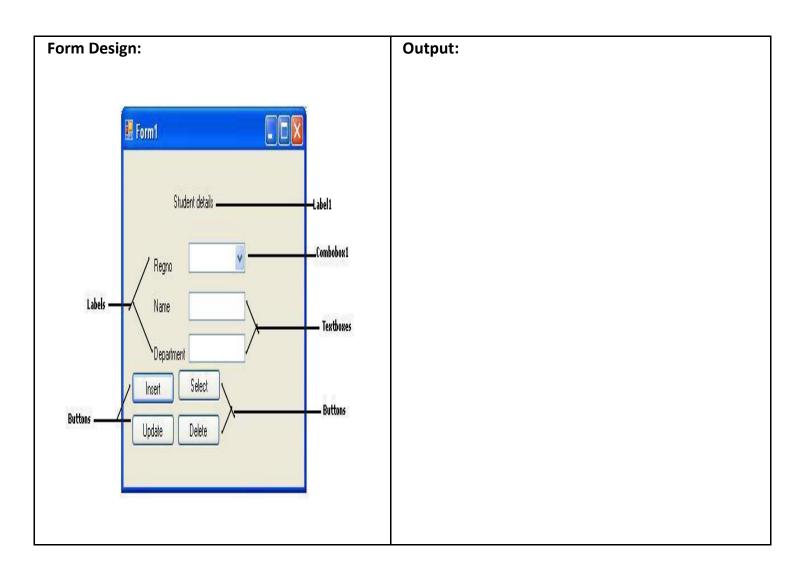
9. Edit the following code in the click event of the **Button3.**

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10. Edit the following code in the click event of **Button4.**

```
com.CommandText = "delete pubs where regno='" + comboBox1.Text + """;
dr2 = com.ExecuteReader();
MessageBox.Show("1 Record deleted");
comboBox1.Items.Remove(comboBox1.SelectedItem);
textBox2.Clear();
textBox3.Clear();
dr2.Close();
```

11. Run the Application.



RESULT: Thus we have created an ADO.Net application using C# .Net to insert, update and delete the records from the table.

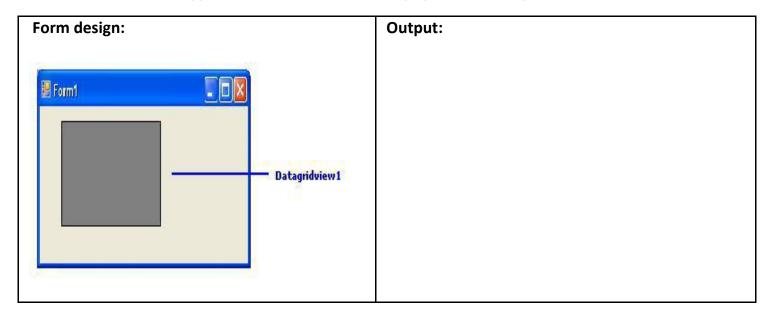
EX.NO : 11	DATABASE APPLICATION TO DISPLAY DATA USING
DATE:	DATAGRID

AIM:-

To Develop a C# .NET application using datagrid to display records.

PROCEDURE:-

- 1. Open the C# Windows application Project and add a form to it.
- 2. Open the Tool Box, Click the DataGridView tool and place it on the Form by dragging the mouse.
- 3. Add a datasource for the project and choose the datasource type as database.
- 4. Select the data connections and database object as the table.
- 5. Run the application. The records will be displayed in the Datagridview.



RESULT:-Thus we have created an ADO .Net application using C# .Net to display the data in the datagrid view.

EX.NO: 2	DEVELOP A WINDOWS APPLICATION TO READ AN XML
DATE:	DOCUMENT INTO A DATASET

AIM: To create an application for accessing the details from XML document containing subject, mark scored and year of passing into a DataSet.

Procedure:

- 1. Create a windows application in C#.Net.
- 2. Drag the Datagrid view control and a button into the form.
- 3. Create an XML file with the following code and save the file as mark.xml

```
<?xml version="1.0"?>
<students>
<student>
         <subject> JAVA </subject>
         <mark> 98 </mark> <year>
         2012 </year>
</student>
<student>
         <subject> ASP .NET </subject>
         <mark> 100 </mark> <year>
         2013 </year>
</student>
<student>
         <subject> C++ </subject>
         <mark> 97 </mark>
         <year> 2012 </year>
```

</student>

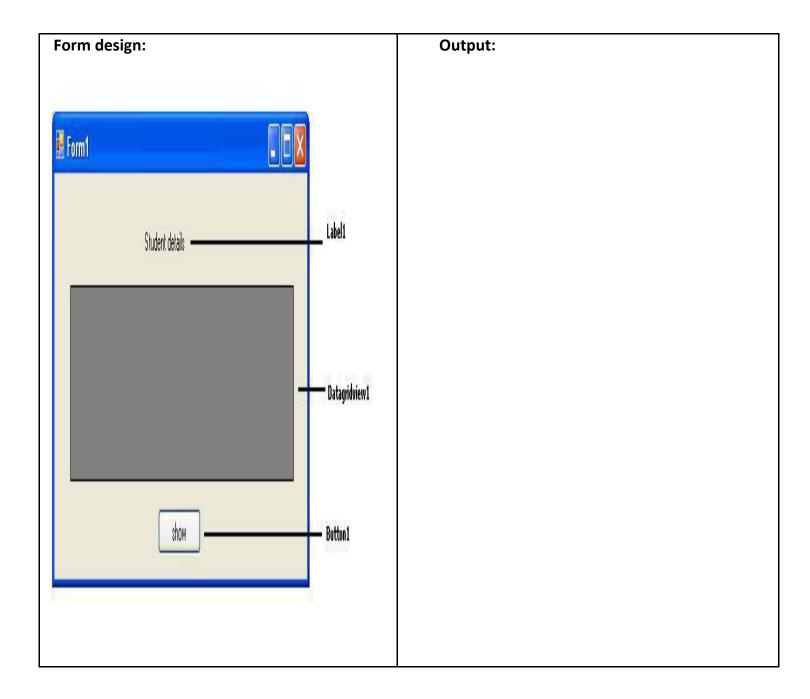
</students>

4. Create a windows application using C# .net and design a form with a Datagridview and a button.

Include the namespace at the beginning of the program.

6. Run the application.

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Result: Thus we have created a windows application to read an XML document into the dataset.

EX.NO : 3	DEVELOP A WINDOWS APPLICATION TO READ AN XML DOCUMENT
DATE:	INTO A DATASET

AIM: Develop a Window application to read an XML document containing employee name,code,Basic pay, HRA, DA into a Dataset

PROCEDURE:

- 1. Create a windows application using C#.Net
- 2. Drag the Datagrid view control and a button into the form.
- 3. Create an XML file with the following code and save the file as employee.xml

```
<?xml version="1.0"?>
<employees>
      <employee>
            <code> E101 </code>
            <name> ASHOK </name>
            <basicpay> 12000 </basicpay>
            <hra> 1500 </hra>
            <da> 8000 </da>
      </employee>
      <employee>
            <code> E102 </code>
            <name> BALA </name>
            <br/><br/>dasicpay> 15000 </br/>basicpay>
            <hra> 2000 </hra>
            <da> 9000 </da>
      </employee>
```

</employees>

4. Create a windows application using C# .net and design a form with a Datagridview and a button.

Include the namespace at the beginning of the program.

```
using System.Data.SqlClient;
```

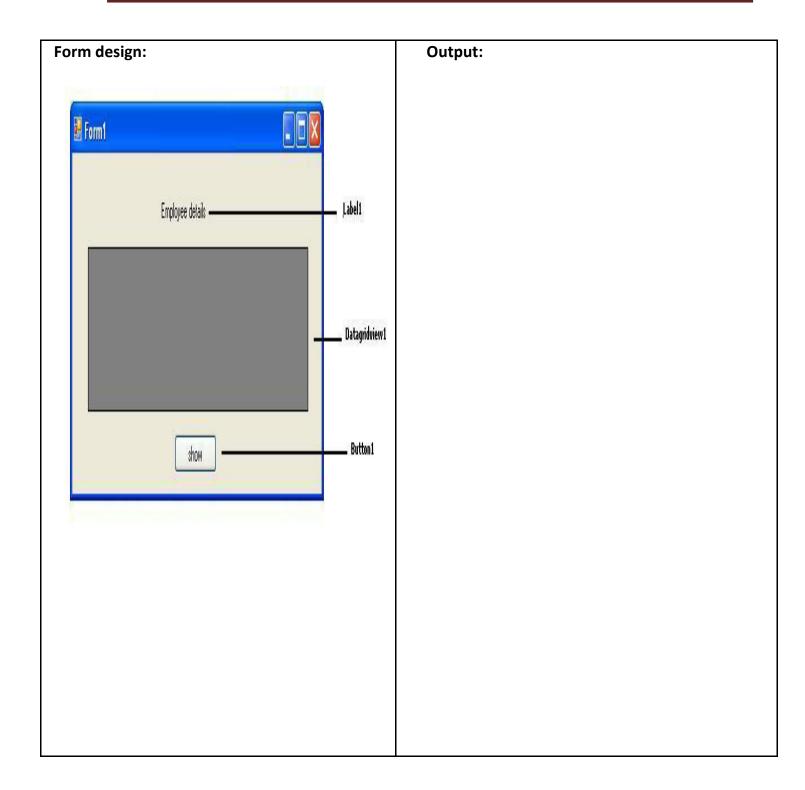
5. Type the following code under **public class Form1**

```
DataSet ds=new DataSet();
```

```
7. Type the following code in the click event of Button1 private void button1_Click(object sender, EventArgs e)
{

    ds.ReadXml("d:/employee.xml");
    dataGridView1.DataMember = "employee";
    dataGridView1.DataSource = ds;
}
```

6. Run the application.



Result: Thus we have created a windows application using C# .Net to read the XML document into the Dataset.

EX.NO : 4	
	DEVELOP A WINDOW APPLICATION TO READ THE DATABASE AND GENERATE
DATE:	XML DOCUMENT.

AIM: To develop a windows application to read employee records from database and generate XML document containing Employee records.

PROCEDURE:

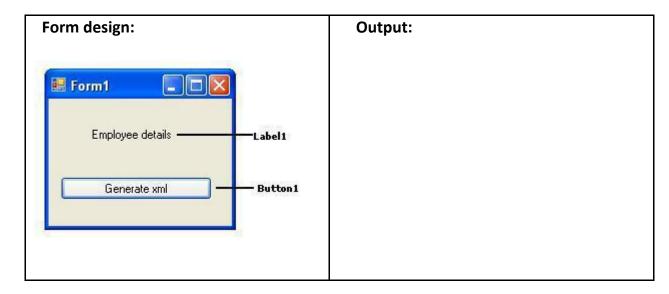
1. Create an employee table in Microsoft SQL Server

CREATE TABLE EMPL(EMPCODE VARCHAR(10), ENAME VARCHAR(20), DEPT VARCHAR(20))

- 2. Create a windows application and drag a label and a button into the form.
- 3. Include the namespaces at the beginning of the program.

```
using System.Data.SqlClient;
using System.Xml;
```

4. Double click on the button and type the following code:



Result: Thus we have developed a windows application to generate an XML document from the database containing the Employee records.