

P. A. POLYTECHNIC COLLEGE:: POLLACHI – 642002 DEPARTMENT OF COMPUTER ENGINEERING LAB MANUAL

STAFF NAME: N. MATHIVANAN

DESIGNATION: HOD

SUBJECT: COMPONENT BASED TECHNOLOGY PRACTICAL

SUBJECT CODE : 35257 YEAR / SEM : III / V

SCHEME : M

Ex No: 01 CONSOLE APPLICATION FOR CHECKING THE CASE OF THE CHARACTER

AIM:

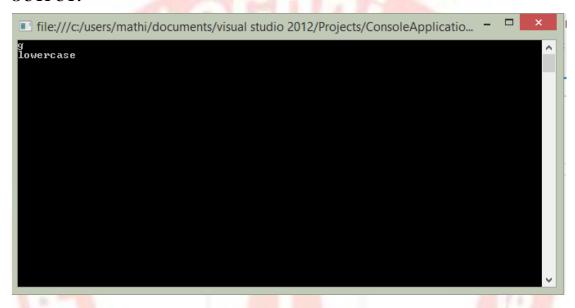
To create a console application to accept the character from console and checking the case of character using C#

PROCEDURE:

- 1. Open Microsoft Visual Studio File -> New -> Project.
- 2. Select Project type as Visual C# -> Windows and Template type as Console Application, then click OK.

```
Using System;
Using System. Collections. Generic;
Using System. Text;
namespace ConsoleApplication3
Class Program
Static void Main (String[] args)
Char c = (char)Console.Read();
If(char.IsLetter(c))
If(char.IsUpper(c))
Console.WriteLine("\n Upper Case");
}
Else
Console.WriteLine("\n Lower Case");
```

```
Else
{
Console.WriteLine("\n Other Character");
}
Console.ReadKey();
}
}
```



RESULT:

Thus C# program to accept the character from keyboard and checking the case executed successfully.

Ex No: 02 C# PROGRAM FOR FINDING VOWELS

AIM:

To write a C# program to accept any character from keyboard and display whether it is a vowel or not.

PROCEDURE:

- 1. Open Microsoft Visual Studio File->New->Project.
- 2. Select Project type as Visual C# -> Windows and Template type as windows application, then click OK.

SOURCE CODE:

Form1.cs

```
Using System.Collections.Generic;
Using System.ComponentModel;
Using System.Data;
Using System.Drawing;
Using System.Drawing;
Using System.Text;
Using System.Text;
Using System.Windows.Forms;
namespace WindowsFormsApplication1
{
Public partial class Form1:Form
{
Public Form1()
{
InitializeComponent();
}
Private void button1_Click(object sender, EventArgs c)
{
If(textBox1.Text=="a"|| textBox1.Text=="e"|| textBox1.Text=="i"|| textBox1.Text=="a"|| textBox1.Text=="a"|||
```

```
textBox1.Text=="E"|| textBox1.Text=="I"|| textBox1.Text=="O"||
textBox1.Text=="V"|
{
textBox2.Text="Vowel";
}
Else
{
textBox2.Text="Not Vowel";
}
}
}
```



RESULT:

Thus the C# program for checking vowels created and execute successfully.

Ex No: 03 C# PROGRAM FOR CASE CONVERSION

AIM:

To write a C# program to accept a string and convert the case of the Characters.

PROCEDURE:

- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.

SOURCE CODE:

Form1.cs

```
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 WindowsFormsApplication1
Public partial class Form1:Form
Public Form1()
InitializeComponent();
Private void button1_Click(object sender, EventArgs c)
Char c1;
String s,c;
Int len v;
```

```
s=textBox1.Text;
len=s.Length;
For(int i=0; I<= len-1; I++)
c= s.Substring(i,1);
c1=char.Parse(c);
v=(int)c1;
Console.Write("v");
If(((int)c1>96)&&((int)c1<123)
textBox2.Text=""+v;
textBox2.text=textBox1.Text.ToUpper();
Else
textBox2.Text=""+v;
textBox2.text=textBox1.Text.ToLower();
Private void button2_click(object sender, EventArgs e)
textBox1.Clear();
textBox2.Clear();
```



RESULT:

Thus the C# program to accept the character from the keyboard and checking the case of the character as string created and executed successfully

AIM

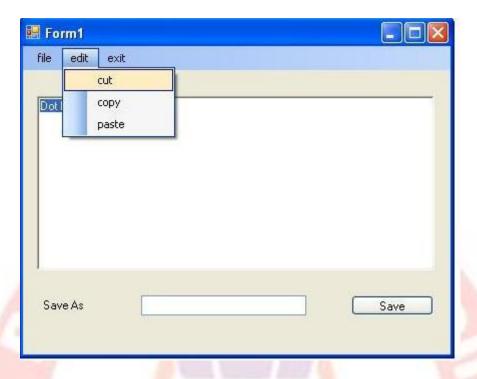
To develop a menu based application to implement a text editor with cut, copy, paste, save and close operations using C#.

PROCEDURE:

- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.

```
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 WindowsFormsApplication1
Public partial class Form1:Form
Public Form1()
InitializeComponent();
Private void Form1_Load(object sender, EventArgs e)
Label1.Visible=false;
textBox1.Visible=false;
Button1. Visible=false;
```

```
Private void newToolStripMenuItem_Click(object sender, EventArgs e)
{
richTextBox1.Clear();
Private void saveToolStripMenuItem_Click(object sender, EventArgs e)
Label1.Visible=true;
textBox1.Visible=true;
Button1.Visible=true;
Private void closeToolStripMenuItem_Click(object sender, EventArgs e)
richTextBox1.Clear();
Private void cutToolStripMenuItem_Click(object sender, EventArgs e)
richTextBox1.Cur();
Private void copyToolStripMenuItem_Click(object sender, EventArgs e)
richTextBox1.Copy();
Private void pasteToolStripMenuItem_Click(object sender, EventArgs e)
richTextBox1.Paste();
Private void buton1_Click(object sender, EventArgs e)
richTextBox1.SaveFile(textBox1.Text);
```



RESULT:

Thus the C# program to implement a text editor is created and executed successfully.

Ex No: 05 C#.NET APPLICATION FOR CALCULATER

AIM:

To write a C# program to implement a calculator with memory and recall operation

PROCEDURE

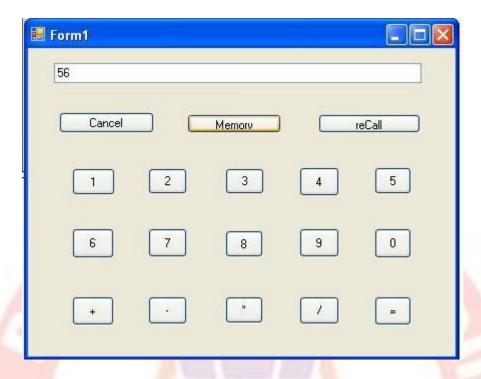
- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.

```
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 WindowsFormsApplication1
Public partial class Form1:Form
Int b, n, d, f;
String op;
Public Form1()
InitializeComponent();
Private void Form1_Load(object sender, EventArgs e)
Private void button1_Click(object sender, EventArgs e)
```

```
textBox1.Clear();
Private void button2_Click(object sender, EventArgs e)
n=int.Parse(textBox1.Text);
textBox1.Clear();
Private void button3_Click(object sender, EventArgs e)
textBox1.Text=""+n;
Private void button4_Click(object sender, EventArgs e)
textBox1.AppendText("1");
Private void button5_Click(object sender, EventArgs e)
textBox1.AppendText("2");
Private void button6_Click(object sender, EventArgs e)
textBox1.AppendText("3");
Private void button7_Click(object sender, EventArgs e)
textBox1.AppendText("4");
Private void button8_Click(object sender, EventArgs e)
textBox1.AppendText("5");
Private void button9_Click(object sender, EventArgs e)
textBox1.AppendText("6");
```

```
Private void button10_Click(object sender, EventArgs e)
textBox1.AppendText("7");
Private void button11_Click(object sender, EventArgs e)
textBox1.AppendText("8");
Private void button12_Click(object sender, EventArgs e)
textBox1.AppendText("9");
Private void button13_Click(object sender, EventArgs e)
textBox1.AppendText("0");
Private void button14_Click(object sender, EventArgs e)
b=int.Parse(textBox1.Text);
Op="+";
textBox1.Clear();
Private void button15_Click(object sender, EventArgs e)
b=int.Parse(textBox1.Text);
Op="-";
textBox1.Clear();
Private void button16_Click(object sender, EventArgs e)
b=int.Parse(textBox1.Text);
Op="*";
textBox1.Clear();
```

```
}
Private void button17_Click(object sender, EventArgs e)
b=int.Parse(textBox1.Text);
Op="'/";
textBox1.Clear();
Private void button18_Click(object sender, EventArgs e)
d=int.Parse(textBox1.Text);
Switch(op)
case "+";
f=b+d;
textBox1.Text=""+f;
Break;
case "-";
f=b-d;
textBox1.Text=""+f;
Break;
case "*";
f=b*d;
textBox1.Text=""+f;
Break;
case "/";
f=b/d;
textBox1.Text=""+f;
Break;
```



RESULT:

Thus the C# program to implement calculator with memory and recall operation has completed and executed successfully.

C#.NET PROGRAM FOR DATE TIME PICKER

AIM:

To write a C# program to display day, month, and year by picking a day in Date Time Picker.

PROCEDURE

Ex No: 06

- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.

```
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 WindowsFormsApplication1
Public partial class Form1:Form
Public Form1()
InitializeComponent();
Private void Form1_Load(object sender, EventArgs e)
textBox1.Text=""+dateTimePicker1.Value.Day;
textBox2.Text=""+dateTimePicker1.Value.Month;
textBox3.Text=""+dateTimePicker1.Value.Year;
```

```
Private void dateTimePicker1_ValueChanged(object sender, EventArgs e) {
    textBox1.Text=""+dateTimePicker1.Value.Day;
    textBox2.Text=""+dateTimePicker1.Value.Month;
    textBox3.Text=""+dateTimePicker1.Value.Year;
}
}
```



RESULT:

Thus a C# program to display day, month, year using DateTimePicker has created and executed successfully

Ex No: 07 C#.NET PROGRAM FOR TIMER BASED QUIZ APPLICATION

AIM:

To develop a c# application to perform timer based quiz of 10 questions using C#.

PROCEDURE

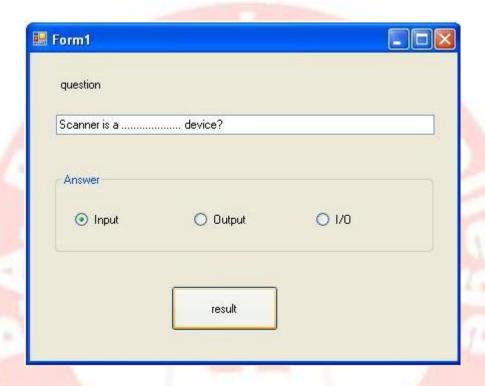
- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.

```
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 WindowsFormsApplication1
Public partial class Form1:Form
String[,]Quest=new string[5,4];
String[,]Ans=new string[5,2];
int i = -1;
Public Form1()
InitializeComponent();
Private void Form1_Load(object sender, EventArgs e)
Quest[0,0]="in.....india won cricket world cup";
```

```
Quest[0,1]="1973";
Quest[0,2]="1983";
Quest[0,3]="1987"
Quest[1,0]="scanner is ...... device";
Quest[1,1]="input";
Quest[1,2]="ouput";
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]="chrome";
Quest[3,0]="..... was not a chief minister";
Quest[3,1]="kamarajar";
Quest[3,2]="sivaji";
Quest[3,3]="MGR";
Quest[4,0]="'tsunami hits india on .....
Quest[4,1]="DEC 24,2006"
Quest[4,2]="DEC 24,2004";
Quest[4,3]="DEC 26,2006";
Ans[0,0]="1983";
Ans[0,0]="input";
Ans[0,0]="chrome";
Ans[0,0]="sivaji";
Ans[0,0]="DEC 4,2004";
Timer1.Enabled=true;
Button1.Enabled=false;
Private void timer1_Tick(object sender, EventArgs e)
i=i+1;
If(i==5)
Timer1.Enabled=false;
Button1.Enabled=true;
```

```
}
Else
radioButton1.Checked=false;
radioButton2.Checked=false;
radioButton3.Checked=false;
textBox1.Text=Quest[i,0];
radioButton1.Text=Quest[i,1];
radioButton2.Text=Quest[i,2];
radioButton3.Text=Quest[i,3];
Private void radioButton1_CheckedChanged(object sender, EventArgs e)
Ans[i,1]=radioButton1.Text;
Private void radioButton2_CheckedChanged(object sender, EventArgs e)
Ans[i,1]=radioButton2.Text;
Private void radioButton3_CheckedChanged(object sender, EventArgs e)
Ans[i,1]=radioButton3.Text;
Private void button1_Clickobject sender, EventArgs e)
Int count=0;
For(int j=0; j<=4; j++)
If(Ans[j,0]==Ans[j,1])
Count+=1;
```

```
MessageBox.Show("you have scored"+count+"marks");
}
}
```



RESULT:

Thus a C# program for timer based quiz application has created and executed successfully.

Ex No: 08 C# APPLICATION USING FILE AND DIRECTORY CONTROL TO IMPLEMENT THE COMMON DIALOG BOX

AIM:

To develop the application using the file and directory control to implement the common dialog box using C#

PROCEDURE

- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.

```
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 WindowsFormsApplication1
Public partial class Form1:Form
Public Form1()
initializeComponent();
Private void button1_Click(object sender, EventArgs e)
If(radioButton.Checked)
folderBrowserDialog();
```

```
textBox. Text = folder Browser Dialog 1. Selected Path; \\
Else
openFileDialog1.ShowDialog();
textBox2.Text=openFileDialog1.FileName;
OUTPUT:
          🖷 Form1
             Select the Option
              File Open
                                                      Browse For Folder
              O Folder Open
                                      ok
                                                         Desktop
              Selected Folder

☐ My Documents

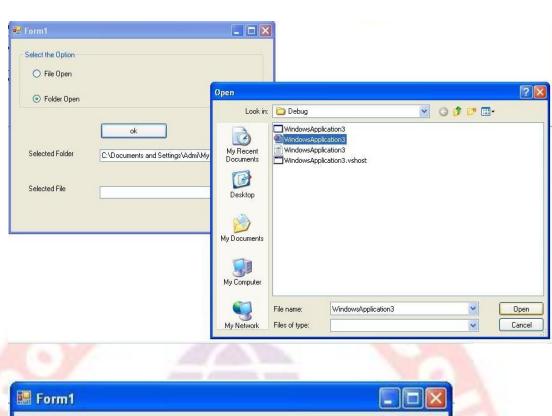
                                                            🖪 🧀 Downloads
                                                              My Music
My Pictures
              Selected File
                                                            🖃 🫅 Visual Studio 2005
                                                               🗷 🧀 Backup Files

■ Code Snippets

                                                               Settings
                                                               🗷 🤰 My Computer

    ■ My Network Places

                                                         Make New Folder
                                                                                OK
                                                                                          Cancel
```





RESULT:

Thus the application using file and directory control to implement the common dialog box program has been executed successfully.

Ex No: 09 ADO.NET APPLICATION FOR STUDENT DATABASE

AIM:

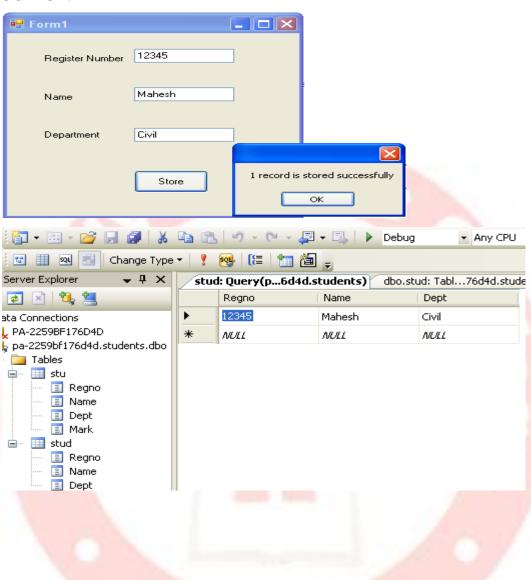
To develop a database application to store the details of students using ADO.NET.

PROCEDURE:

- 1. Open Microsoft Visual Studio -> Create a table and database in Server Explorer window.
- 2. In the table create appropriate column name and data type and insert the data in table.
- 3. Open Microsoft Visual Studio File-> New -> Project.
- 4. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 5. Design controls on a form1, write event procedures and run the application.

```
using System. Collections. Generic;
using System. Component Model;
using System. Data;
using System. Drawing;
using System. Text;
using System. Windows. Forms;
using System. Data. SqlClient;
namespace exx9
{
    public partial class Form1 : Form
    {
        public SqlConnection con;
        public SqlCommand com;
        public Form1()
        {
```

```
InitializeComponent();
     private void Form1_Load(object sender, EventArgs e)
       //con
                          SqlConnection("data sorce=localhost/sqlexpress;
                   new
       catalog=studen; persist security info=True; Integrated Security=SSPI;");
       con= new SqlConnection("Server=PA-2259BF176D4D; database=studen;
       uid=sa; pwd=sa");
       com = new SqlCommand();
       com.Connection = con;
       con.Open();
     private void button1_Click(object sender, EventArgs e)
       if (\text{textBox}1.\text{Text} == ("") \parallel \text{textBox}2.\text{Text} == ("") \parallel \text{textBox}3.\text{Text} == (""))
     MessageBox.Show("Please fill all details");
     }
    else
     com.CommandText="insert
                                    into
                                            stu
                                                  values("
                                                              +textBox1.Text+
+textBox2.Text+ "'," +textBox3.Text+ "')";
     com.ExecuteNonQuery();
     MessageBox.Show("1 record is stored successfully");
    textBox1.Clear();
     textBox2.Clear();
     textBox3.Clear();
```



RESULT:

Thus the ADO.NET program to store student details is created and executed successfully.

Ex No: 10 ADO.NET PROGRAM FOR INSERTION DELETION AND UPDATION

AIM:

To write an ADO.NET program for insertion, deletion and updating in student database

PROCEDURE:

- 1. Open Microsoft Visual Studio -> Create a table and database in Server Explorer window.
- 2. In the table create appropriate column name and data type and insert the data in table.
- 3. Open Microsoft Visual Studio File-> New -> Project.
- 4. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 5. Design controls on a form1, write event procedures and run the application.

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

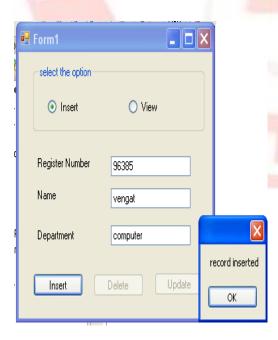
namespace WindowsApplication15
{
    public partial class Form1 : Form
    {
        public SqlConnection con;
        public SqlCommand com;
        public SqlDataReader rd;
        public Form1()
```

```
InitializeComponent();
    private void Form1_Load(object sender, EventArgs e)
    con = new SqlConnection("data source=pa-2259bf176d4d;initial
catalog=students; persist security info=True; Integrated Security=SSPI;");
    //while using sql query analyzer/ Con= new
SqlConnection("Server=localhost;database=student;uid=sa;pwd=");
    com=new SqlCommand();
    com.Connection=con;
    con.Open();
    }
    private void radioButton1_CheckedChanged(object sender, EventArgs e)
       textBox1.Clear();
      textBox2.Clear();
      textBox3.Clear();
      comboBox1.Visible = false;
       button1.Enabled = true;
      button2.Enabled = false;
      button3.Enabled = false;
    private void radioButton2_CheckedChanged(object sender, EventArgs e)
      comboBox1.Items.Clear();
      button1.Enabled=false;
      button2.Enabled=true;
      button3.Enabled=true;
      comboBox1.Visible=true;
      com.CommandText="select*from stu";
      rd=com.ExecuteReader();
       while(rd.Read())
```

```
{
       comboBox1.Items.Add(rd.GetString(0));
       }
       rd.Close();
    private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
    com.CommandText="select * from stu where
regno=("+comboBox1.SelectedItem+"')";
    rd=com.ExecuteReader();
    if(rd.Read())
    textBox2.Text=rd.GetString(1);
    textBox3.Text=rd.GetString(2);
    rd.Close();
    private void button1_Click(object sender, EventArgs e)
      if(textBox1.Text==""||textBox2.Text==""||textBox3.Text==""|
         MessageBox.Show("Please fill all details");
       else
       com.CommandText="insert into stu
values(""+textBox1.Text+"",""+textBox2.Text+"",""+textBox3.Text+"")";
       com.ExecuteNonQuery();
       MessageBox.Show("record inserted");
    private void button2_Click(object sender, EventArgs e)
```

```
com.CommandText="delete from stu where
regno="+comboBox1.SelectedItem+"";
    rd=com.ExecuteReader();
    comboBox1.Items.Remove(comboBox1.SelectedItem);
    textBox2.Clear();
    textBox3.Clear();
    MessageBox.Show("record deleted");
}

private void button3_Click(object sender, EventArgs e)
{
    com.CommandText="update stu set
name=""+textBox2.Text+"',dept=""+textBox3.Text+"' where
regno=""+comboBox1.SelectedItem+"'";
    com.ExecuteNonQuery();
    MessageBox.Show("record updated");
}
}
```





RESULT:

Thus an ADO.NET program for insertion, deletion and Updating is created and executed successfully.

Ex No: 11 ADO.NET APPLICATION WITH DATA GRID

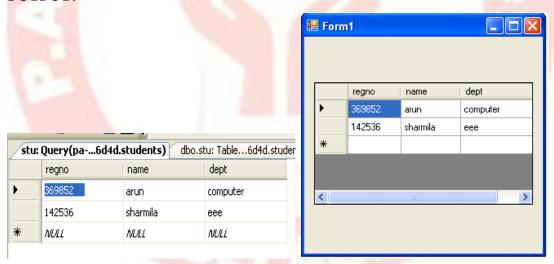
AIM:

To develop a application using Datagrid to Display records.

PROCEDURE:

- 1. Open Microsoft Visual Studio -> Create a table and database in Server Explorer window.
- 2. In the table create appropriate column name and data type and insert the data in table.
- 3. Open Microsoft Visual Studio File-> New -> Project.
- 4. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 5. Design Data Grid View controls on a form1 and select arrow symbol Data Grid View control.
- 6. In the Data Grid View task, click choose data source drop down list box.
- 7. Click add project data source, choose a data source type and click next.
- 8. In the dataset model, choose the dataset and click next, again click next.
- 9. Chose the table and click finish.
- 10. Run the application

OUTPUT:



RESULT:

Thus the ADO.NET application for access data using data grid is completed and executed successfully.

Ex No: 12 DATA GRID APPLICATION WITH INSERTION AND UPDATION

AIM:

To create a application using datagrid to add, edit, and modify records.

PROCEDURE:

- 1. Create a table stud in a sql server database student (using SQL Query Analyzer).
- 2. Execute the following commands

Create database student

Use student

Create table stud (regno varchar(10), name varchar(10), dept varchar(10))

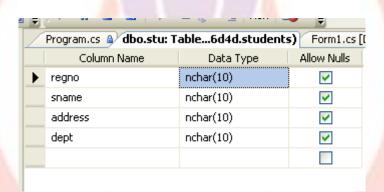
- 3. Open Microsoft Visual Studio File-> New -> Project.
- 4. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.

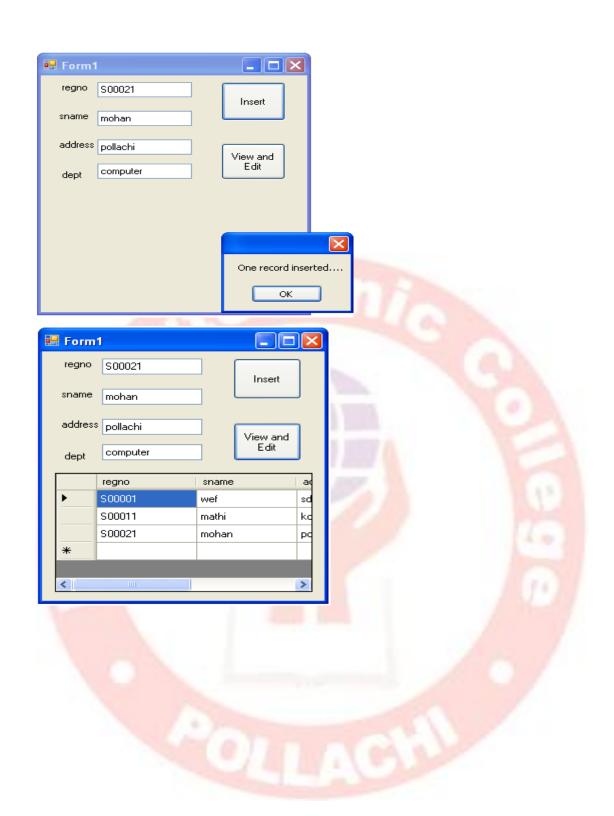
```
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace ex12
{
    public partial class Form1 : Form
    {
        SqlCommand com = new SqlCommand();
        SqlConnection con = new SqlConnection("Data Source=LAB2-36;Initial Catalog=student;Integrated Security=True");
        SqlDataReader rd;
```

```
int n;
             public Form1()
                   InitializeComponent();
             private void Form1_Load(object sender, EventArgs e)
                   com.Connection = con;
                   con.Open();
                                                   void
                                                                                  dataGridView1_CellContentClick(object
                                                                                                                                                                                                                    sender,
             private
DataGridViewCellEventArgs e)
                   com.CommandText="update
                                                                                                                                                         studs
                                                                                                                                                                                                                                set
sname=""+dataGridView1.CurrentRow.Cells[1].Value+"",address=""+dataGridView1.
CurrentRow.Cells[2].Value+"',dept="+dataGridView1.CurrentRow.Cells[3].Value+"'
where regno=""+dataGridView1.CurrentRow.Cells[0].Value+"";
                    com.ExecuteNonQuery();
                    MessageBox.Show("One record updated....");
                  SqlDataAdapter da1=new SqlDataAdapter("select * from studs",con);
                   DataSet ds1=new DataSet();
                   da1.Fill(ds1,"studs");
                   dataGridView1.DataSource=ds1.Tables["studs"];
             private void button1_Click(object sender, EventArgs e)
                   dataGridView1.Visible=false;
                   com.CommandText="select count(*) from studs";
                   n=(Int32)com.ExecuteScalar();
                   textBox1.Text="S000"+n+1;
                   com.CommandText="insert
                                                                                                                                                      into
                                                                                                                                                                                                                         studs
values (''' + textBox 1. Text + ''', ''' + textBox 2. Text + ''', ''' + textBox 3. Text + ''', ''' + textBox 4. Text +
t+"')";
                   com.ExecuteNonQuery();
```

```
MessageBox.Show("One record inserted....");
}
private void button2_Click(object sender, EventArgs e)
{
    dataGridView1.Visible=true;
    SqlDataAdapter da=new SqlDataAdapter("select * from studs",con);
    DataSet ds=new DataSet();
    da.Fill(ds,"studs");
    dataGridView1.DataSource=ds.Tables["studs"];
}
```

OUTPUT:





Thus the ADO.NET with data grid has been implemented for insertion and Updating operation.

Ex No: 1 READ THE DETAILS OF THE SELECTED COUNTRY

AIM:

To develop a application to read the details of the selected country stored in a XML database and display back to the user.

PROCEDURE:

- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 3. On Project menu click Add New Item -> then click XML file option -> enter the XML filename as countries.xml.
- 4. On Form1 add one button and set name as Display country for button1.
- 5. On Form1 add a dataset control and select untyped dataset option and click ok.
- 6. Enter the code for button1 and button2.
- 7. Run the application.

SOURCE CODE:

Countries.xml

Click event of buton1:

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

```
namespace country
{
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
    private void Display_Click(object sender, EventArgs e)
       DataSet dataset = new DataSet();
       dataset.ReadXml(@"C:\Documents and Settings\cse\My Documents\Visual
Studio 2005\Projects\country\countries.xml");
       dataGridView1.DataSource = dataset.Tables[0];
OUTPUT:
 🚟 Form1
                   capital
                             population
           name
                   NewDelhi
                             140 crore
           india
                             150 crore
           china
                   beijing
```

japan

tokyo

Display

13 crore

Thus the xml database was created and executed successfully.

Ex No: 2 READ STUDENT DATA FROM XML DOCUMENTAND DISPLAY

AIM:

To develop a application to read an xml document containing subject, marks scored, year of passing into a dataset.

PROCEDURE:

- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 3. On Project menu click Add New Item -> then click XML file option -> enter the XML filename as student.xml.
- 4. On Form1 add button 1 and DataGridView and set name as show student details for button 1. 5. On Form1 add a dataset control and select untyped dataset option and click ok.
- 6. Enter the code for button1.
- 7. Run the application.

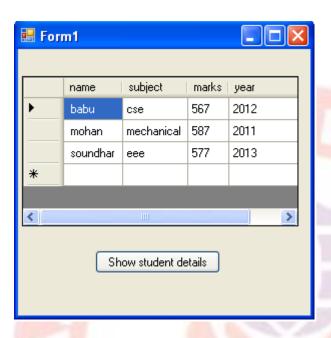
SOURCE CODE:

student.xml

```
<year>2011</year>
 </stud>
 <stud>
  <name> soundhar </name>
  <subject>eee</subject>
  <marks>577</marks>
  <year>2013</year>
 </stud>
</student>
Click event of buton1:
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System. Windows. Forms;
namespace exb2
  public partial class Form1 : Form
    public Form1()
      InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
      DataSet dataset = new DataSet();
      dataset.ReadXml(@"C:\Documents and Settings\cse\My Documents\Visual
Studio 2005\Projects\exb2\exb2\students.xml");
      dataGridView1.DataSource = dataset.Tables[0];
```

```
}
```

OUTPUT:



RESULT:

thus the above xml document was read by datagridview and executed successfully.

Ex No:3 READ EMPLOYEE DATA FROM XML DOCUMENTAND DISPLAY

AIM:

To develop a windows application to read an xml document containing employee name, code, basic pay, HRA, DA into a dataset.

PROCEDURE:

- 1. Open Microsoft Visual Studio File-> New -> Project.
- 2. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 3. On Project menu click Add New Item -> then click XML file option -> enter the XML filename as employee.xml.
- 4. On Form1 add button 1 and DataGridView and set name as show employee details for button 1.
- 5. On Form1 add a dataset control and select untyped dataset option and click ok.
- 6. Enter the code for button1.
- 7. Run the application.

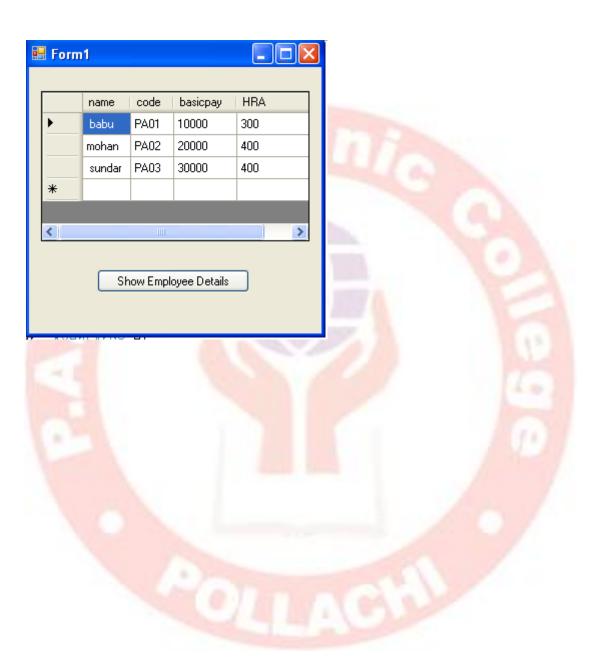
SOURCE CODE:

employee.xml

```
<HRA>400</HRA>
   </emp>
 <emp>
  <name> sundar </name>
  <code>PA03</code>
   <br/>
<br/>
dasicpay>30000</br>
   <HRA>400</HRA>
   </emp>
</employee>
Click event of buton1:
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System. Text;
using System. Windows. Forms;
namespace exb3
  public partial class Form1 : Form
    public Form1()
      InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
      DataSet dataset = new DataSet();
      dataset.ReadXml(@"C:\Documents and Settings\cse\My Documents\Visual
Studio 2005\Projects\exb3\exb3\employee.xml");
      dataGridView1.DataSource = dataset.Tables[0];
```

```
}
```

OUTPUT:



RESULT:

Thus the employee xml database was accessed using dataset and executed successfully.

Ex No: 4 GENERATE XML DOCUMENT CONTAINING EMPLOYEE RECORDS

AIM:

To develop a Window application to read employee records from Database and generate XML document containing employee records.

PROCEDURE:

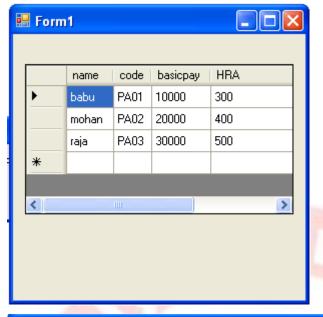
- 1. Open Microsoft Visual Studio -> Create a table and database in Server Explorer window.
- 2. In the table create appropriate column name and data type and insert the data in table.
- 3. Open Microsoft Visual Studio File-> New -> Project.
- 4. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 5. Drag and drop the dataset and datagridview control on form1.
- 6. Write event procedure and run application.

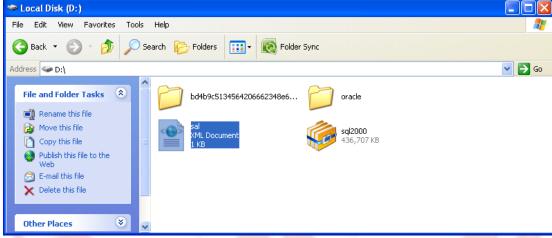
SOURCE CODE:

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

namespace WindowsApplication11
{
    public partial class Form1 : Form
    {
        public SqlConnection con;
}
```

```
public SqlCommand com;
    public Form1()
      InitializeComponent();
    private void Form1_Load(object sender, EventArgs e)
      SqlConnection conn = new SqlConnection("Data Source=pa-
2259bf176d4d;initial Catalog=employee;Integrated Security=True");
      conn.Open();
      SqlCommand cmd = new SqlCommand("Select * from emp", conn);
      SqlDataAdapter sda = new SqlDataAdapter(cmd);
      DataSet ds = new DataSet();
      sda.Fill(ds);
      ds.Tables[0].WriteXml(@"D:\sal.xml");
      dataGridView1.DataSource = ds.Tables[0];
      MessageBox.Show("XML DOCUMENT IS GENERATED AT LOCATION
D DRIVE AS SALARY.XML");
OUTPUT:
  XML DOCUMENT IS GENERATED AT LOCATION D DRIVE AS SALARY.XML
                         OK
```





Program code to read employee records from Database and generate XML document containing employee records is verified.

Ex No:5 GENERATE XML DOCUMENT CONTAINING STUDENTS RECORDS

AIM:

To develop a Window application to read students records from Database using ADO.NET and generate XML document containing students records.

PROCEDURE:

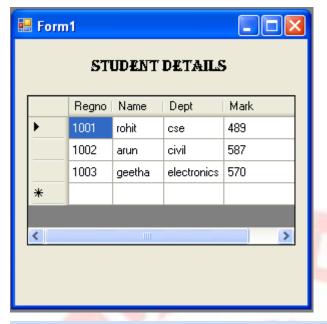
- 1. Open Microsoft Visual Studio -> Create a table and database in Server Explorer window.
- 2. In the table create appropriate column name and data type and insert the data in table.
- 3. Open Microsoft Visual Studio File-> New -> Project.
- 4. Select project type as Visual C# -> Windows and Template type as Windows application, then click OK.
- 5. Drag and drop the dataset and datagridview control on form1.
- 6. Write event procedure and run application.

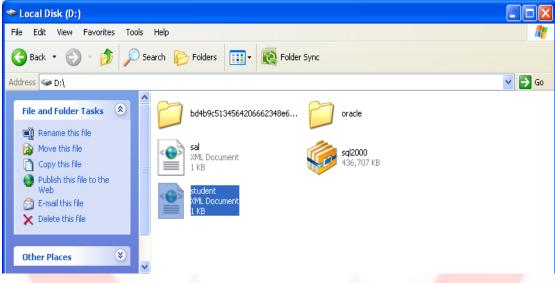
SOURCE CODE:

```
using System. Collections. Generic;
using System. Component Model;
using System. Data;
using System. Drawing;
using System. Text;
using System. Windows. Forms;
using System. Data. Sql Client;

namespace Windows Application 12
{
   public partial class Form 1 : Form
   {
      public Sql Connection con;
```

```
public SqlCommand com;
    public Form1()
      InitializeComponent();
    private void Form1_Load(object sender, EventArgs e)
      SqlConnection conn = new SqlConnection("Data Source=pa-
2259bf176d4d;initial Catalog=students;Integrated Security=True");
      conn.Open();
      SqlCommand cmd = new SqlCommand("Select * from stu", conn);
      SqlDataAdapter sda = new SqlDataAdapter(cmd);
      DataSet ds = new DataSet();
      sda.Fill(ds);
      ds.Tables[0].WriteXml(@"D:\student.xml");
      dataGridView1.DataSource = ds.Tables[0];
      MessageBox.Show("XML DOCUMENT IS GENERATED AT LOCATION
D DRIVE AS student.XML");
    }
OUTPUT:
  XML DOCUMENT IS GENERATED AT LOCATION D DRIVE AS student.XML
                         OK
```





Program code to read students records from Database using ADO.NET and generate XML document containing students records is verified.