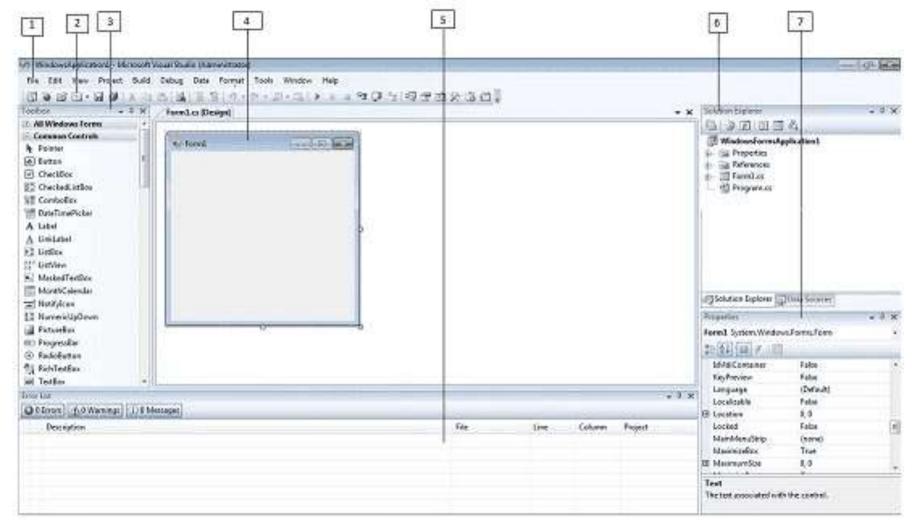
Window Controls in C#.Net

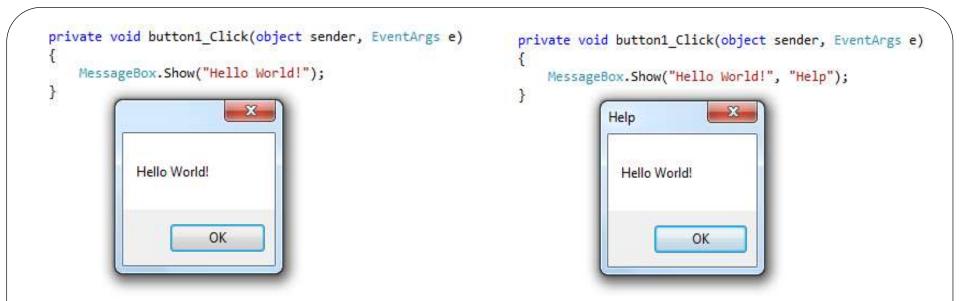


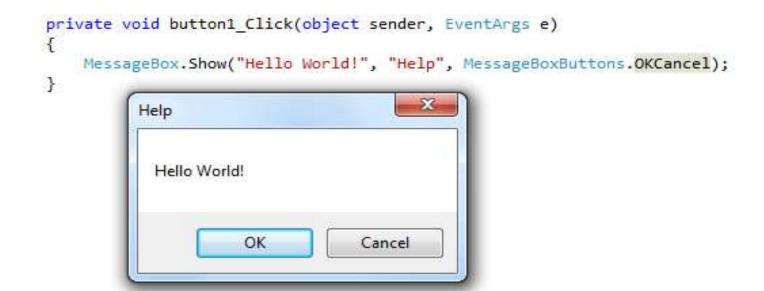
- 1. Menu Bar
- Standard Toolbar
- ToolBox
- 4. Forms Designer
- 5. Output Window
- 6. Solution Explorer
- 7. Properties Window

MessageBox Class

MessageBox Class

- The System.Windows.Forms.MessageBox is a static class that is used to show message boxes for prompting, confirmation and warning users.
- To show a message box, simply call the Show method of the MessageBox class.
- The simplest version of the Show method is the one that accepts a string message as an argument.





• The table below shows the members of the MessageBoxButtons enumeration.

Member	Buttons Shown	
AbortRetryIgnore	Abort, Retry, Ignore	
OK	OK	
OKCancel	OK, Cancel	
RetryCancel	Retry, Cancel	
YesNo	Yes, No	
YesNoCancel	Yes, No, Cancel	



MessageBox.Show("Hello World!", "Help", MessageBoxButtons.OK, MessageBoxIcon.Information);

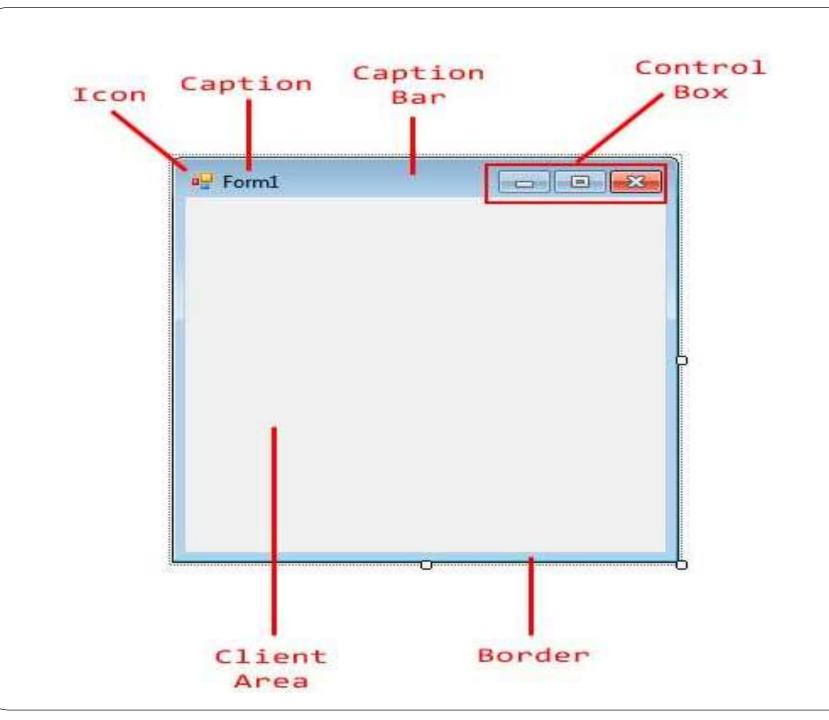


Icon	Member	Usage
0	Asterisk Information	Used when showing information to the user.
8	Error Hand Stop	Used when showing error messages.
<u> </u>	Exclamation Warning	Used when showing warning messages.
?	Question	Used when asking a question to the user.

Form In C# window Application

Windows Form

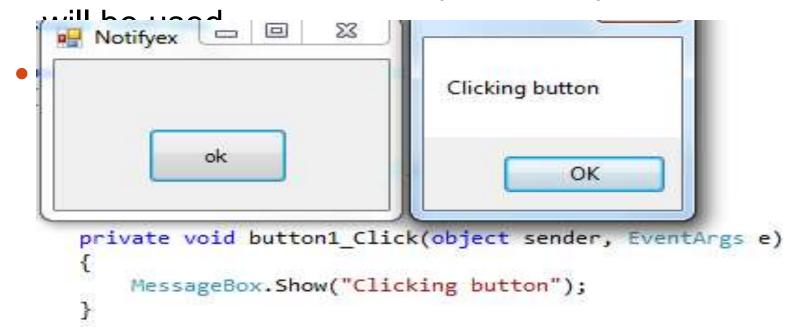
- Windows Forms (or simply forms) are the windows you see in a Windows Application. You can create multiple forms in a single application.
- Each form inherits the properties and methods of the System.Windows.Forms.Form class.
- The namespaceSystem.Windows.Forms contains components you will need for creating forms and controls.



Button Control

Button control

- The Button control (System.Windows.Forms.Button) is commonly used to execute commands when it is clicked.
- When a button is clicked, you specify codes that



Label control

Label & LinkLabel control

- The **Label control** (System.Windows.Forms.Label) is used to add text to a form that can be used to show messages, or add labels to identify what other controls' functionality is. Drag a label control from the toolbox to the form.
- By default, it will have an initial text.
- A LinkLabel control is a label control that can display a hyperlink.





TextBox Control

Textbox control

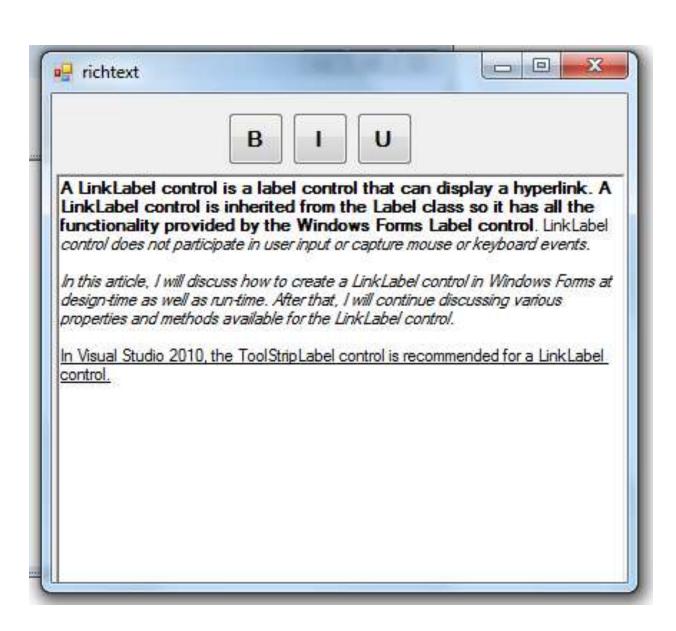
- A Textbox control is used to display, or accept as input, a single line of text.
- This control has additional functionality that is not found in the standard Windows text box control, including multiline editing and password



RichTextBox Control

RichTextBox Control

- The RichTextBox control (System.Windows.Forms. RichTextBox) is similar to a TextBox control, but it allows you to format different parts of the text inside it.
- The TextBox control is typically used to accept text input from the user while the RichTextBox control is used to show formatted text and save it in Rich Text Format (RTF).



```
Font oldFont;
    Font newFont;
   // Get the font that is being used in the selected text
   oldFont = this.richTextBox1.SelectionFont;
    // If the font is using Italic style now, we should remove it
    if (oldFont.Italic)
        newFont = new Font(oldFont, oldFont.Style & ~FontStyle.Underline);
    else
        newFont = new Font(oldFont, oldFont.Style | FontStyle.Underline);
   // Insert the new font
   this.richTextBox1.SelectionFont = newFont;
   this.richTextBox1.Focus();
}
private void button1 Click(object sender, EventArgs e)
    Font oldfont;
   Font newfont:
    oldfont = this.richTextBox1.SelectionFont;
    if (oldfont.Bold)
       newfont = new Font(oldfont, oldfont.Style & ~FontStyle.Bold);
    else
        newfont = new Font(oldfont, oldfont.Style | FontStyle.Bold);
    this.richTextBox1.SelectionFont = newfont;
    this.richTextBox1.Focus();
```

CheckBox And RadioButton Control

Control

CheckBox

- Checkboxes allow the user to make multiple selections from a number of options.
- CheckBox to give the user an option, such as true/false or yes/no.
- You can click a check box to select it and click it again to deselect it.

RadioButton

- A radio button or option button enables the user to select a single option from a group of choices when paired with other RadioButton controls.
- When a user clicks on a radio button, it becomes checked, and all other radio buttons with same group become unchecked



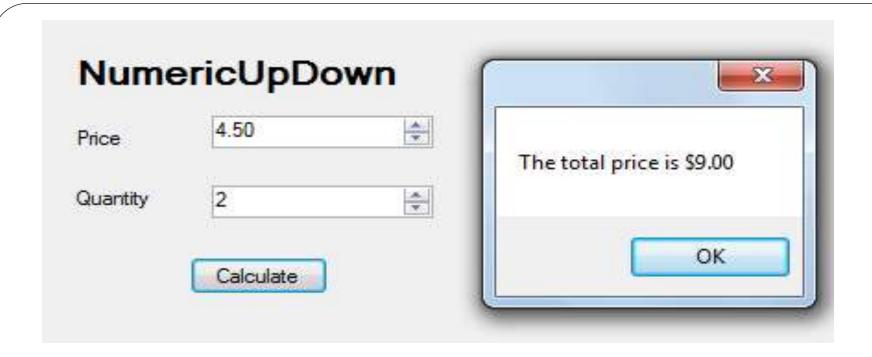
```
private void button1_Click(object sender, EventArgs e)
    string items = String.Empty;
    if (checkBox1.Checked)
        items += "\n Pencil";
    if (checkBox2.Checked)
        items += "\n Sharpener";
    if (checkBox3.Checked)
        items += "\n Pen.";
   MessageBox.Show("You have bought: " + items);
private void button2 Click(object sender, EventArgs e)
    string Gender;
    if (radioButton1.Checked == true)
        Gender = "Male";
    else
        Gender = "Female";
   MessageBox.Show(Gender.ToString());
```

, ProgressBar, ComboBox , Monthly Calendar And Date Time Picker

NumericUpDown

- The NumericUpDown control is typically used to get numeric inputs and automatically restricts user for giving invalid non-numeric values.
- The NumericUpDown control appears like a TextBox control, but there are arrow buttons on its right or left side that is used to increment or

Control	Property	Value
button1	Name	buttonCalculate
numericUpDown1	Name	numericUpDownPrice
	Decimal	2
	Increment	0.50
	Maximum	10000
numericUpDown2	Name	numericUpDownQuantity
	Maximum	100



```
private void buttonCalculate_Click(object sender, EventArgs e)
{
    decimal price = numericUpDownPrice.Value;
    int quantity = (int)numericUpDownQuantity.Value;
    decimal total;

    total = price * quantity;

    MessageBox.Show(String.Format("The total price is {0:C}", total));
}
```

PictureBox Control

 The Windows Forms PictureBox control is used to display images in bitmap, GIF, icon, or JPEG formats.
 PictureBox
 PictureBox

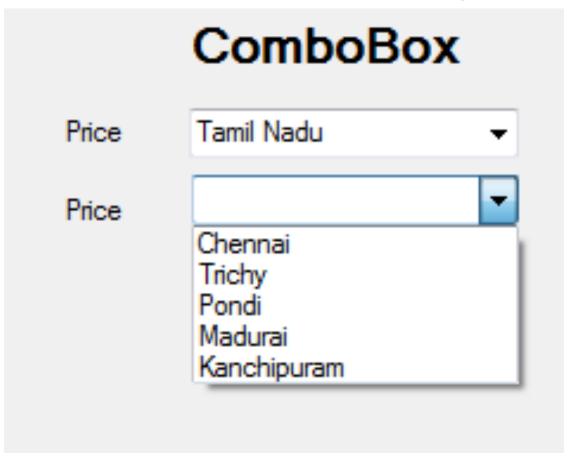
Click to upload picture



```
private void pictureBox1_Click(object sender, EventArgs e)
{
    label1.Visible = false;
    OpenFileDialog o = new OpenFileDialog();
    if (o.ShowDialog() == DialogResult.OK)
    {
        pictureBox1.Image = new Bitmap(o.FileName);
        pictureBox1.SizeMode = PictureBoxSizeMode.StretchImage;
    }
}
```

ComboBox control

 The ComboBox control is another way of allowing a user to choose from a set of options.



```
private void
                    Form1 Load(object sender, EventArgs e)
    string[] names = { "Tamil Nadu", "Kerala", "Telugana", "Andhara", "Delhi" };
    foreach (string name in names)
        comboBox1.Items.Add(name);
private void comboBox1 SelectedIndexChanged(object sender, EventArgs e)
    comboBox2.Items.Clear();
    if (comboBox1.SelectedItem.ToString() == "Tamil Nadu")
        comboBox2.Items.Add( "Chennai");
        comboBox2.Items.Add( "Trichy");
        comboBox2.Items.Add("Pondi");
        comboBox2.Items.Add( "Madurai");
        comboBox2.Items.Add("Kanchipuram");
    if (comboBox1.SelectedItem.ToString() == "Kerala")
        comboBox2.Items.Add("Kolam");
        comboBox2.Items.Add("Cochin");
        comboBox2.Items.Add("Thiruvandhapuram");
```

DateTimePicker Control

- DateTimePicker is ideal for choosing a single date and/or time value and requires the same amount of space as an ordinary drop-down list box.
- When the user clicks the drop-down button, a month calendar appears.

The operation of the control from this point is

exactly the same as the Mon



MonthCalendar control

 The MonthCalendar control presents an intuitive graphical interface for users to view and set date

informa



DateTimePicker

Thursday , June 30, 2016 ■▼



MonthlyCalendar

DateTimePicker Date: Thursday, June 30, 2016

Month Calender Date: Thursday, August 25, 2016

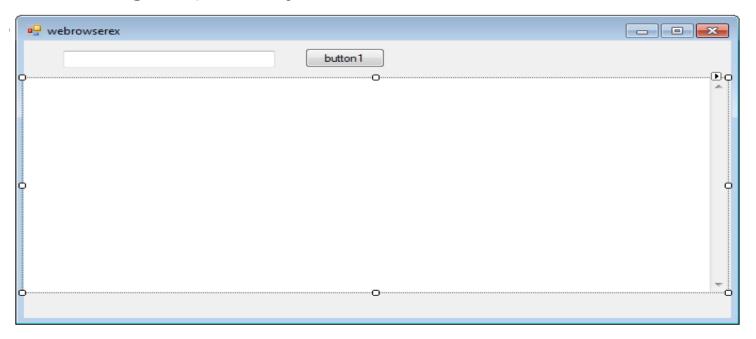
```
private void dateTimePicker1_ValueChanged(object sender, EventArgs e)
{
    label12.Text = "DateTimePicker Date: " + dateTimePicker1.Text;
}

private void monthCalendar1_DateChanged(object sender, DateRangeEventArgs e)
{
    label11 Text = "Month Calender Date : "+ monthCalendar1.SelectionStart.ToLongDateString();
}
```

WebBrowser Control

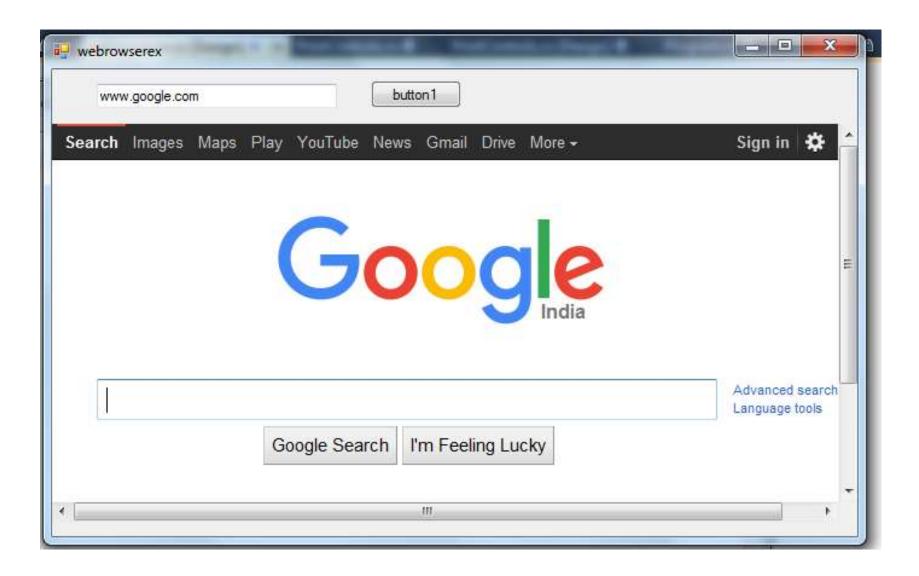
Web Browser Control

 WebBrowser control allows developers to build Web browsing capability within Windows Forms



```
private void button1_Click(object sender, EventArgs e)
{
    webBrowser1.Navigate(textBox1.Text);
}
```

Web Browser Output



Dialog Controls

- ColorDialog Control
- FontDialog Control
- FolderBrowserDialog Control
- OpenFileDialog Control
- SaveFileDialog control

The ColorDialog Control

- The ColorDialog (System.Windows.Forms.ColorDialog) is used when you want to pick different colors.
- For example, when you want to pick a color of the font or a background color for the form, you can use the ColorDialog control
- The following are some of the useful properties of the ColorDialog control.

Properties	Description
AllowFullOpen	Specifies whether the user can choose custom colors.
Color	The color that the user selected.
CustomColors	A collection of custom colors picked by the user.
FullOpen	Specifies whether the part used to pick custom colors are automatically open.

Changing Form Background Color

```
⊡using System;
  using System.Collections.Generic;
                                            Form1
  using System.ComponentModel;
  using System.Data;
  using System.Drawing;
                                                          Color Dialog Control
  using System.Ling;
  using System.Text;
 using System.Windows.Forms;
                                                 Form Font Color
                                                                       Form Background Color
□ namespace Controls
      public partial class Form1 : Form
Ξ
          public Form1()
              InitializeComponent();
          private void button2 Click(object sender, EventArgs e)
              ColorDialog color = new ColorDialog();
              if (color.ShowDialog() == DialogResult.OK)
                  this.BackColor = color.Color;
```

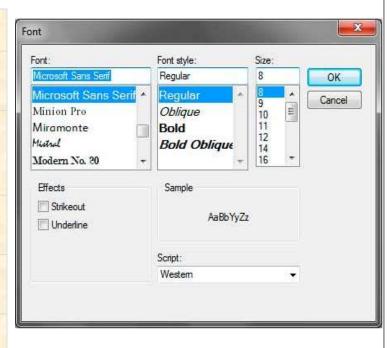
Changing Form Font Color

```
∃using System;
                                                                                   - -
 using System.Collections.Generic;
                                           Form1
 using System.ComponentModel;
 using System.Data;
                                                          Color Dialog Control
 using System.Drawing;
 using System.Linq;
 using System.Text;
 using System.Windows.Forms;
                                                 Form Font Color
                                                                       Form Background Color
□ namespace Controls
 {
     public partial class Form1 : Form
          public Form1()
              InitializeComponent();
          private void button1 Click(object sender, EventArgs e)
              ColorDialog color = new ColorDialog();
              if (color.ShowDialog() == DialogResult.OK)
                  this.ForeColor = color.Color;
```

The FontDialog Control

 The FontDialog control (System.Windows.Forms.FontDialog) is a handy control for selecting different kinds of font and font-

Properties	Description
Color	The selected color of the user.
Font	The resulting font constructed using the font dialog.
MaxSize	The maximum size the dialog can provide.
MinSize	The minimum size the dialog can provide.
ShowApply	Indicates whether to show the Apply button.
ShowColor	Indicates whether to show the Color option.
ShowEffects	Indicates whether to show the Effects option.



```
Jusing System;
 using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
                                                                                Fontdialogex
using System.Linq;
using System. Text;
using System.Windows.Forms;
                                                              Font Dialog Control
namespace Controls
    public partial class Fontdialogex : Form
                                                               Text Font
         public Fontdialogex()
             InitializeComponent();
                                                                  - Fontdialogex
                                                                                 - - X
         private void button1_Click(object sender, EventArgs e)
                                                                      Font Dialog Control
             FontDialog font = new FontDialog();
             if (font.ShowDialog() == DialogResult.OK)
                                                                        Text Font
                label1.Font = font.Font;
```

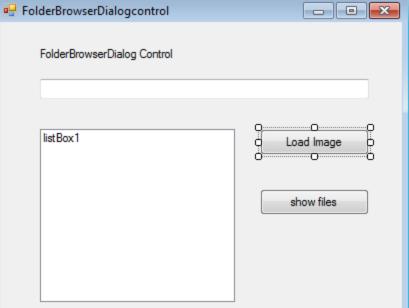
The FolderBrowserDialog Control

 Folder Browser Dialog is a .NET control that prompts user to browse and select a folder location. Using FolderBroserDialog user can only select folders and not files.

 The FolderBrowserDialog control (System.Windows.Forms.FolderBrowserDialog)

n your system.

allows yo



```
- 0
                                                                                                                                 X
                                                                     FolderBrowserDialogcontrol
private void button1 Click(object sender, EventArgs e)
                                                                           FolderBrowserDialog Control
    // Create a new instance of FolderBrowserDialog.
    FolderBrowserDialog fbd = new FolderBrowserDialog();
                                                                            C:\Users\Public\Pictures\Sample Pictures
    //Show FolderBrowserDialog
    if ( fbd.ShowDialog()==DialogResult.OK)
                                                                            C:\Users\Public\Pictures\Sample Pictur
                                                                                                                   Load Image
                                                                            C:\Users\Public\Pictures\Sample Pictur
        //Show selected folder path in textbox1.
                                                                            C:\Users\Public\Pictures\Sample Pictur
        textBox1.Text = fbd.SelectedPath;
                                                                            C:\Users\Public\Pictures\Sample Pictur
                                                                            C:\Users\Public\Pictures\Sample Pictur
                                                                                                                    show files
                                                                            C:\Users\Public\Pictures\Sample Pictur
                                                                            C:\Users\Public\Pictures\Sample Pictur
                                                                            C:\Users\Public\Pictures\Sample Pictur
private void button2_Click(object sender, EventArgs e)
                                                                            C:\Users\Public\Pictures\Sample Pictur
    if (!textBox1.Text.Equals(String.Empty))
        if (Directory.GetFiles(textBox1.Text).Length > 0)
              foreach (string file in Directory.GetFiles(textBox1.Text))
                  //Add file in ListBox.
                 listBox1.Items.Add(file);
         else
             listBox1.Items.Add(String.Format("No files Found at location : {0}", textBox1.Text));
```

OpenFileDialog Control

 An OpenFileDialog control is used to browse and select a file on a computer.

```
∃namespace Controls
                                                                         23
                                                                   Opendia
      public partial class Opendia : Form
          public Opendia()
                                                         button 1
              InitializeComponent();
          private void button1 Click(object sender, EventArgs e)
              OpenFileDialog dlg = new OpenFileDialog();
              if (dlg.ShowDialog() == DialogResult.OK)
                  MessageBox.Show("You selected the file " + dlg.FileName);
                      You selected the file C:\Users\Mani\Documents\d.txt
                                                             OK
```

SaveFileDialog control

 A SaveFileDialog control is used to save a file using Windows Save File Dialog.

```
SaveDia
Controls.SaveDia
  using System.componentModel;
  using System.Data;
  using System.Drawing;
                                                                                   Save
  using System.Linq;
                                                                   dfkidfds
  using System.Text;
  using System.Windows.Forms;
  using System.IO;
namespace Controls
  {
      public partial class SaveDia : Form
          public SaveDia()
                                                                              Sucessfully saved
              InitializeComponent();
                                                                                        OK.
          private void button1_Click(object sender, EventArgs e)
              SaveFileDialog saveFileDialog();
              saveFileDialog1.Filter = "Text files (*.txt)|*.txt|All files (*.*)|*.*";
              saveFileDialog1.DefaultExt = ".txt";
              if (saveFileDialog1.ShowDialog() == DialogResult.OK)
                  FileStream file = new FileStream(saveFileDialog1.FileName, FileMode.Create);
                  StreamWriter writer = new StreamWriter(file);
                  writer.Write(richTextBox1.Text);
                  writer.Close();
                  MessageBox.Show("Sucessfully saved");
```

