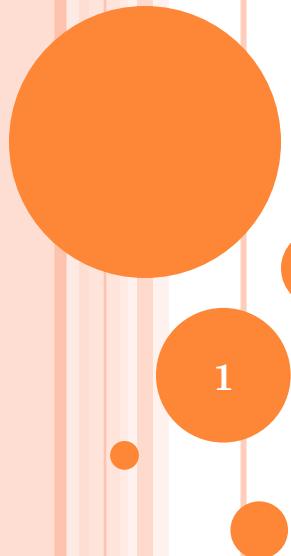


UNIT 3

ADDITIONAL CONTROLS AND MENUS OF WINDOWS



SYLLABUS

- 3.1 Working with other controls of toolbox :

- 3.1.1 Date Time Picker

- 3.1.2 List Box

- 3.1.2.1 Item collection

- 3.1.3 Combo Box

- 3.1.4 Picture Box

- 3.1.5 Rich textbox

- 3.1.6 Progress Bar

- 3.1.7 Masked Text Box

SYLLABUS

3.1.8 Link Label

3.1.9 Checked list box

3.1.10 Scroll bar

3.1.11 Timer

3.2 Working with menu

3.2.1 Menu strip

3.2.2 Context Menu

3.3.3 ToolStrip

3.1 WORKING WITH OTHER CONTROLS OF TOOLBOX :

3.1.1 Date Time Picker:

- The Date Time Picker control allows selecting a date and time by editing the displayed values in the control.
- If you click the arrow in the Date Time Picker control, it displays a month calendar, like a combo box control.
- The user can make selection by clicking the required date. The new selected value appears in the text box part of the control.

CONT....

Properties:



Sr. No	Property Name	Description
1	DropDownAlign	Gets or sets the alignment of the drop-down calendar on the DateTimePicker control.
2	Font	Gets or sets the font of the text displayed by the control.
3	ShowCheckBox	Gets or sets a value indicating whether a check box is displayed to the left of the selected date.
4	ShowUpDown	Gets or sets a value indicating whether a spin button control (also known as an up-down control) is used to adjust the date/time value.
5	Visible	Gets or sets a value indicating whether the control and all its child controls are displayed
6	Value	Gets or sets the date/time value assigned to the control.

CONT....

Method:



Sr. No	Method Name	Description
1	ToString	Returns the string representing the control.

Event:



Sr. No	Event Name	Description
1	TextChanged	Occurs when the value of Text property changes.
2	FormatChanged	Occurs when the Format property value has changed.
3	VisibleChanged	Occurs when the Visible property value changes.
4	TabIndexChanged	Occurs when the TabIndex property value changes.

EXAMPLE

- In this example, let us create a small application for calculating days of leave.
- Let us add two Date Time Picker controls on the form, where the user will enter the date of going on leave and the date of joining.

CONT...

Form1

Date of Joining:

Monday , January 14, 2013 ▾

Date of Leaving:

Monday , January 14, 2013 ▾

Leave Calculation

days

3.1.2 List Box:

- The List Box represents a Windows control to display a list of items to a user.
- A user can select an item from the list.
- It allows the programmer to add items at design time by using the properties window or at the runtime.

CONT....

Properties:



Sr. No	Property Name	Description
1	Items	Gets the items of the list box.
2	MultiColumn	Gets or sets a value indicating whether the list box supports multiple columns.
3	ScrollAlwaysVisible	Gets or sets a value indicating whether the vertical scroll bar is shown at all times.
4	SelectionMode	Gets or sets the method in which items are selected in the list box.
5	Sorted	Gets or sets a value indicating whether the items in the list box are sorted alphabetically.



CONT....

Method:



Sr. No	Method Name	Description
1	ClearSelected	Unselects all items in the ListBox.
2	FindString	Finds the first item in the ListBox that starts with the string specified as an argument.
3	FindStringExact	Finds the first item in the ListBox that exactly matches the specified string.
4	GetSelected	Returns a value indicating whether the specified item is selected.
5	SetSelected	Selects or clears the selection for the specified item in a ListBox.

Event:



Sr. No	Event Name	Description
1	Click	Occurs when a list box is selected.
2	SelectedIndexChanged	Occurs when the SelectedIndex property of a list box is changed.

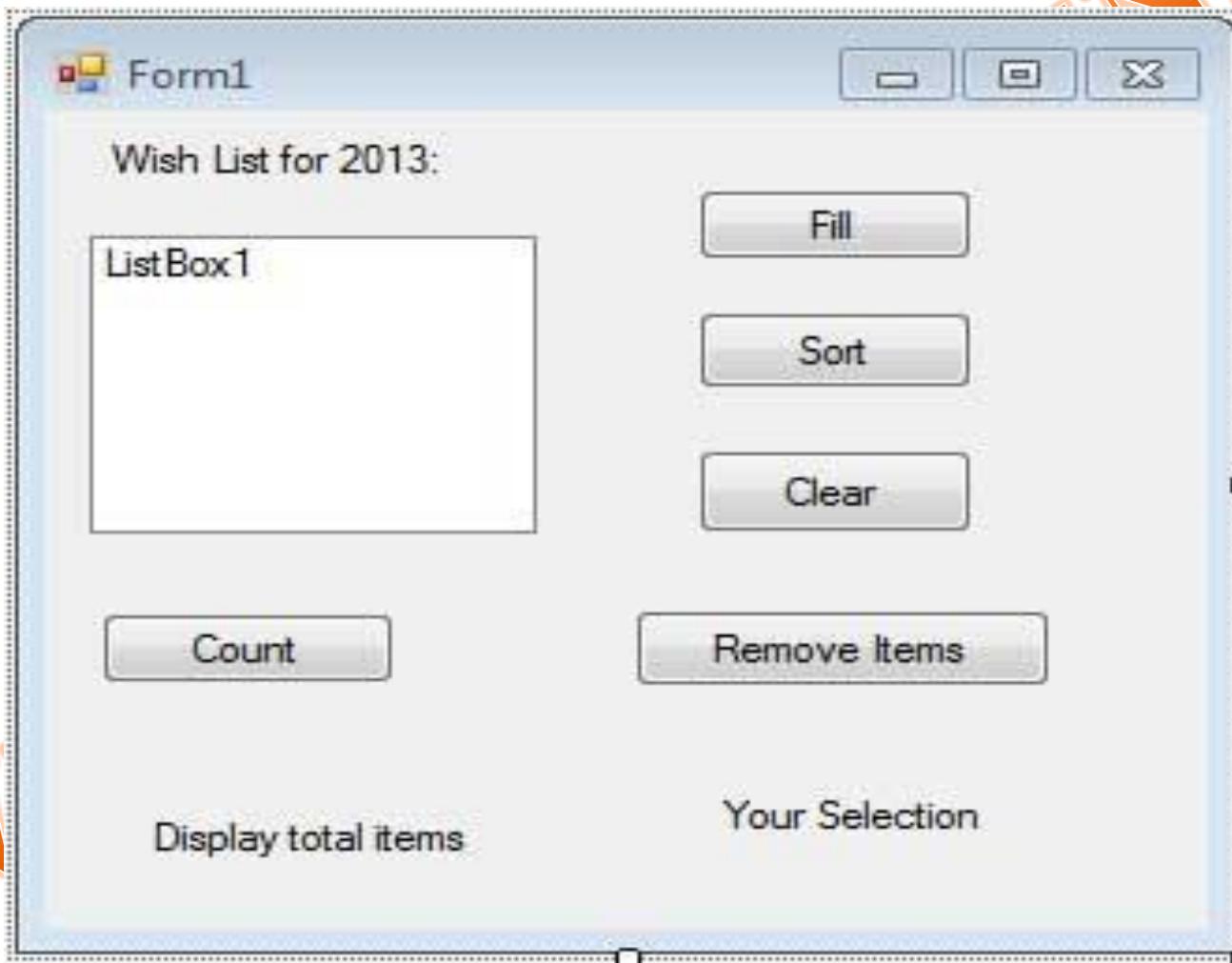
EXAMPLE

- Drag and drop two labels, a button and a List Box control on the form.
- Set the Text property of the first label to provide the caption "Choose your favorites destination for higher studies".
- Set the Text property of the second label to provide the caption "Destination". The text on this label will change at runtime when the user selects an item on the list.

CONT...



EXAMPLE



3.1.3 Combo Box:

- The Combo Box control is used to display a dropdown list of various items.
- It is a combination of a text box in which the user enters an item and a dropdown list from which the user selects an item

CONT....

Properties:

WTC

Sr. No	Property Name	Description
1	BackColor	Sets the background color of the control
2	Items	Gets an object representing the collection of the items contained in control
3	Name	Contains the name of the controls by which the control can be identified
4	Sorted	Gets or sets a value indicating whether the items in the combo box are sorted.
5	Text	Gets or sets the text associated with this control.
6	TabIndex	Gets or sets the tab order of the control within its container.

VY

CONT....

Method:

VTC

Sr. No	Method Name	Description
1	FindString	Finds the first item in the combo box that starts with the string specified as an argument.
2	FindStringExact	Finds the first item in the combo box that exactly matches the specified string.

VPMP POY

CONT....

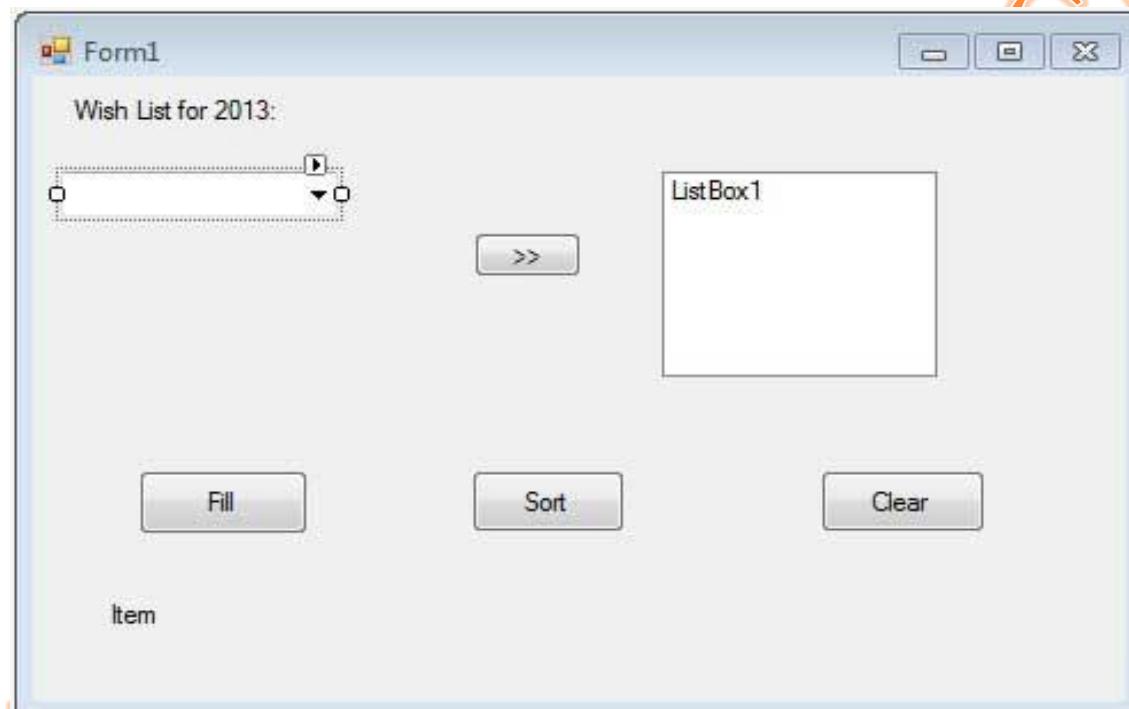
Event:

Sr. No	Event Name	Description
1	DropDown	Occurs when the drop-down portion of a combo box is displayed.
2	DropDownClosed	Occurs when the drop-down portion of a combo box is no longer visible.
3	DropDownStyleChanged	Occurs when the DropDownStyle property of the ComboBox has changed.
4	SelectedIndexChanged	Occurs when the SelectedIndex property of a ComboBox control has changed.

CONT..

- In this example, let us fill a combo box with various items, get the selected items in the combo box and show them in a list box and sort the items.
- Drag and drop a combo box to store the items, a list box to display the selected items, four button controls to add to the list box with selected items, to fill the combo box, to sort the items and to clear the combo box list, respectively.

EXAMPLE



3.1.4 Picture Box:

- The Picture box is used for displaying images on the form.
- The image property of the control allow you to set an image at run time or at design time.

CONT....

Properties:



Sr. No	Property Name	Description
1	BackColor	Gets or sets the background color for the control.
2	Image	Gets or sets the image that is displayed in the control.
3	ImageLocation	Gets or sets the path or the URL for the image displayed in the control.
4	SizeMode	Indicates how the image is displayed.
5	TabIndex	Gets or sets the tab index value.

VP M

CONT....

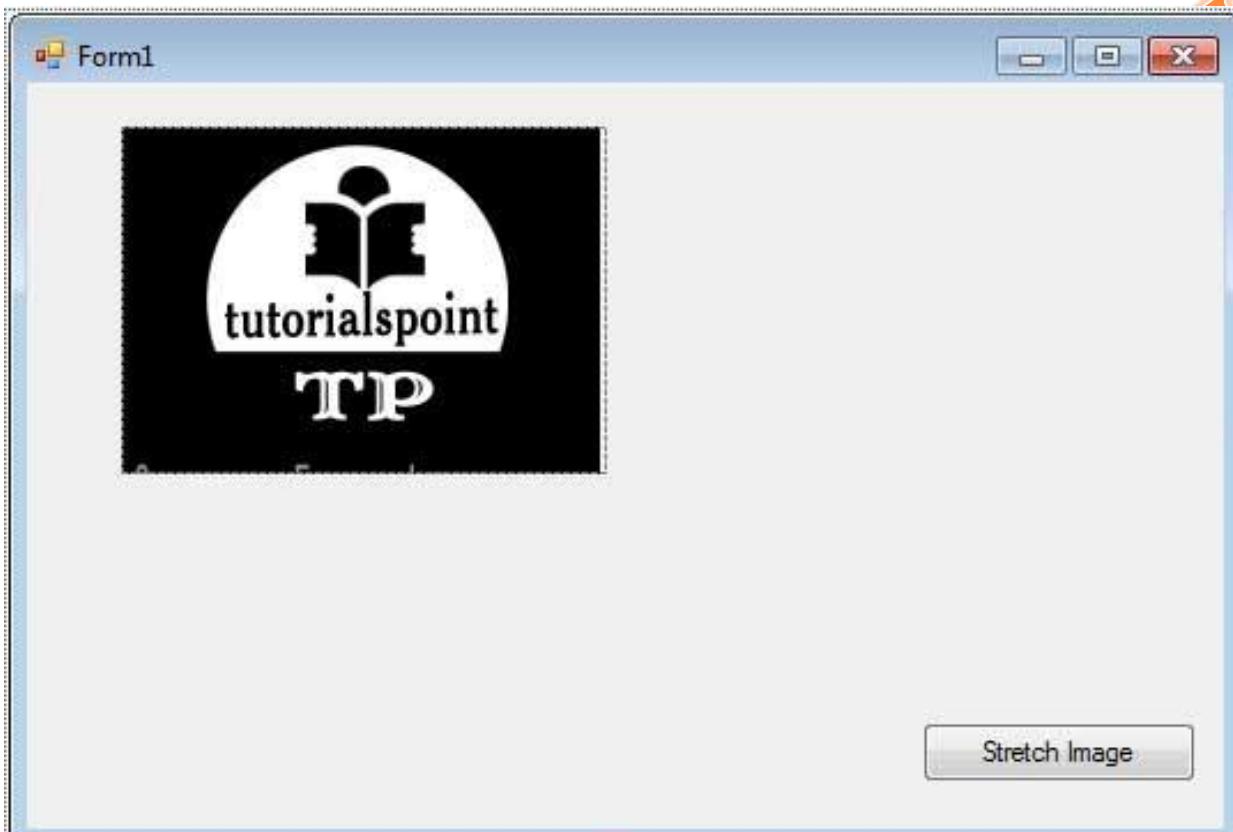
Method:

Sr. No	Method Name	Description
1	ToString	Returns the string that represents the current picture box.

Event:

Sr. No	Event Name	Description
1	Click	Occurs when the control is clicked.
2	MouseEnter	Occurs when the mouse pointer enters the control.
3	MouseLeave	Occurs when the mouse pointer leaves the control.
4	Resize	Occurs when the control is resized.

EXAMPLE



3.1.5 Rich Text Box:

- The Rich Textbox control is the core of a full-blown word processor.
- It provides all the functionality of a Textbox control.
- It can handle multiple typefaces, sizes, and attributes, and offers precise control over the margins of the text.

CONT....

Properties:

RTTC

Sr. No	Property Name	Description
1	BackColor	Property used to Get or set background color for the control.
2	ForeColor	Gets or sets the font color used when displaying text in the control.
3	MaxLength	Property used to set or get the maximum number of a line a user can type into a rich text box.
4	Multiline	Property used to set or get a value specifying multiline input for the control.
5	ReadOnly	This property represent that if you want the RichTextBox only readable mode, so no one can perform editing on that RichTextBox.
6	Text	Property used to set or get the current text in the control.

CONT....

Method:

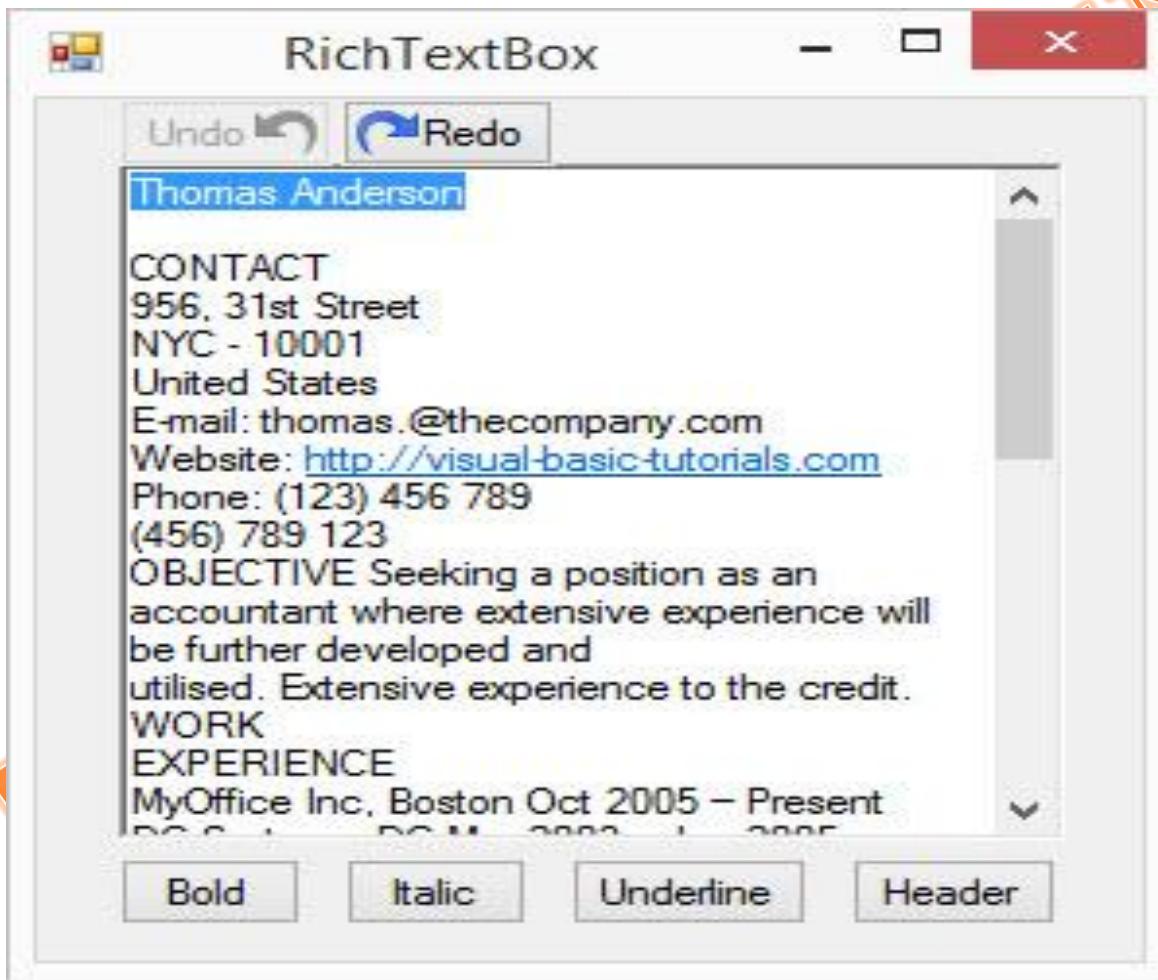
Sr. No	Method Name	Description
1	AppendText	Method used to append text to current text of the control.
2	Clear	Method used to clear text from the control.
3	SelectAll	Methods used to select all the text within the control.
4	Undo	Method to undo the last edit operation.

CONT....

Event:

Sr. No	Event Name	Description
1	Click	Triggered when the control is clicked.
2	LinkClicked	Triggered when the user clicks on the link within the text.
3	SelectionChanged	Triggered when the value of the Selection property is changed.

EXAMPLE



3.1.6 Progress bar:

- It represents a Windows progress bar control.
- It is used to provide visual feedback to your users about the status of some task.
- It shows a bar that fills in from left to right as the operation progresses.
- The Progress Bar control is typically used when an application performs tasks such as copying files or printing documents

CONT....

Properties:

VTC

Sr. No	Property Name	Description
1	Name	Contains the name of the controls by which the control can be identified
2	Maximum	Gets or sets the maximum value of the range of the control.
3	Minimum	Gets or sets the minimum value of the range of the control.
4	Style	Gets or sets the manner in which progress should be indicated on the progress bar.
5	Value	Gets or sets the current position of the progress bar.

CONT....

Method:



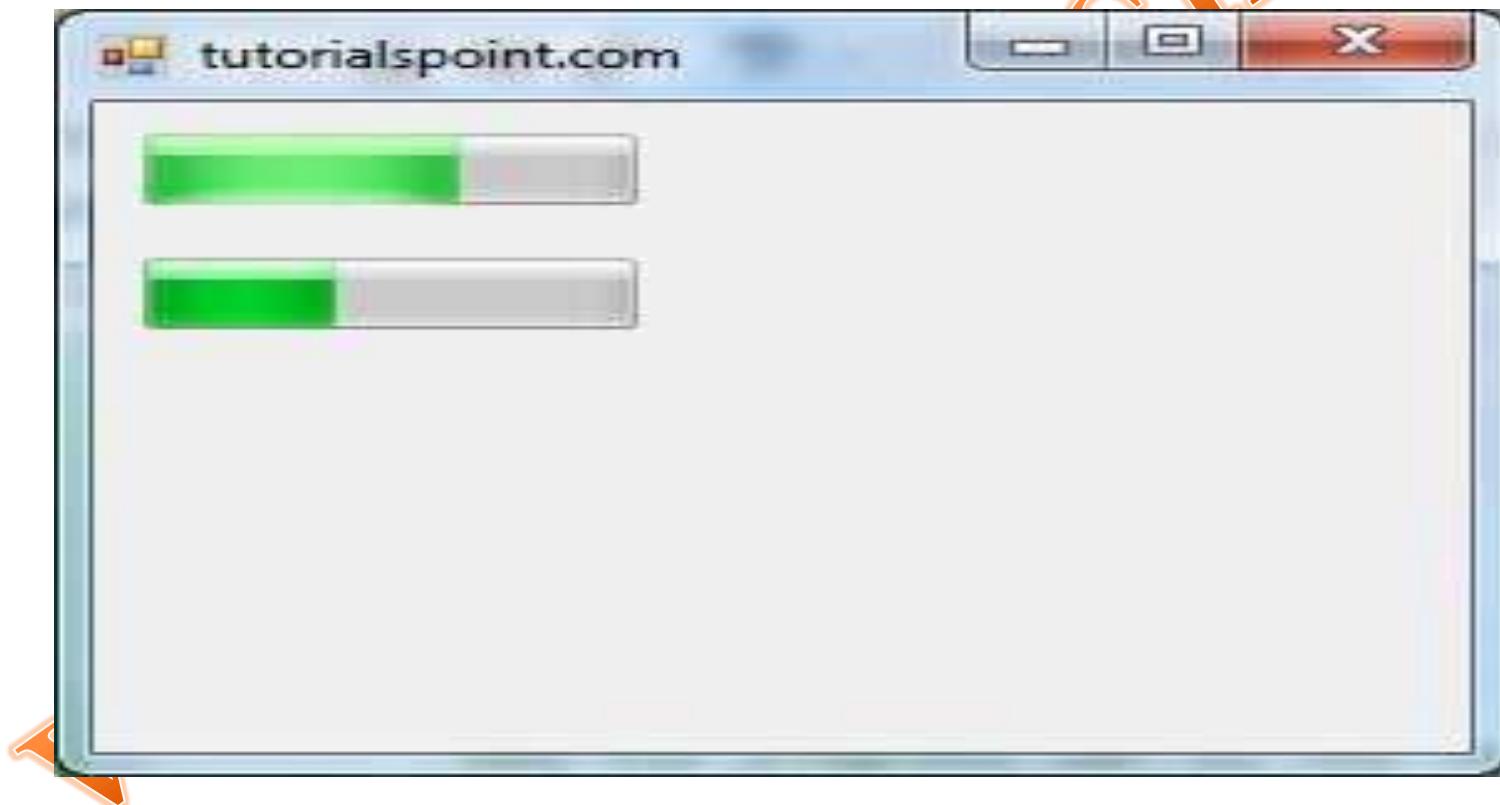
Sr. No	Method Name	Description
1	Increment	Increments the current position of the ProgressBar control by specified amount.
2	ResetText	Resets the Text property to its default value.
3	ToString	Returns a string that represents the progress bar control.

Event:



Sr. No	Event Name	Description
1	Click	Occurs when the control is clicked.
2	Leave	Occurs when focus leaves the ProgressBar control.

EXAMPLE



3.1.7 Masked Text Box:

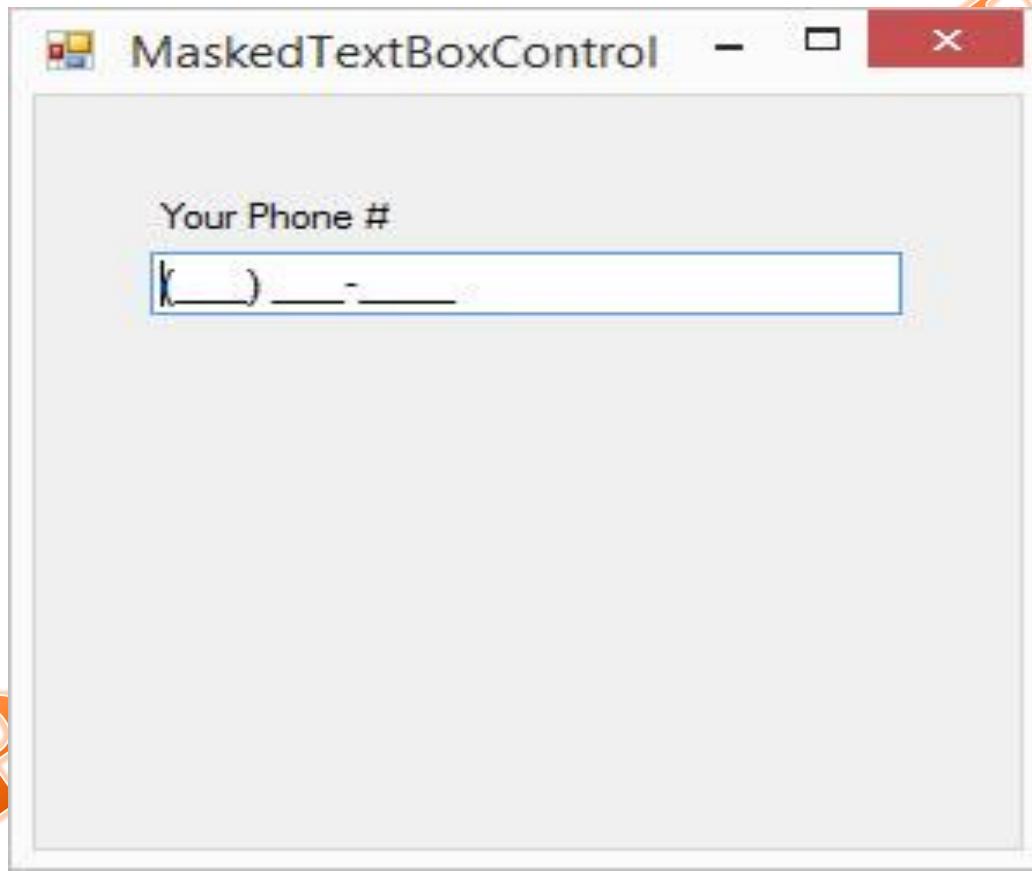
- A Masked Textbox control provides validation mechanism for user input on a Form.
- To create a Masked Textbox control at design-time, you simply drag and drop a Masked Textbox control from Toolbox to a Form in Visual Studio.

CONT....

Properties:

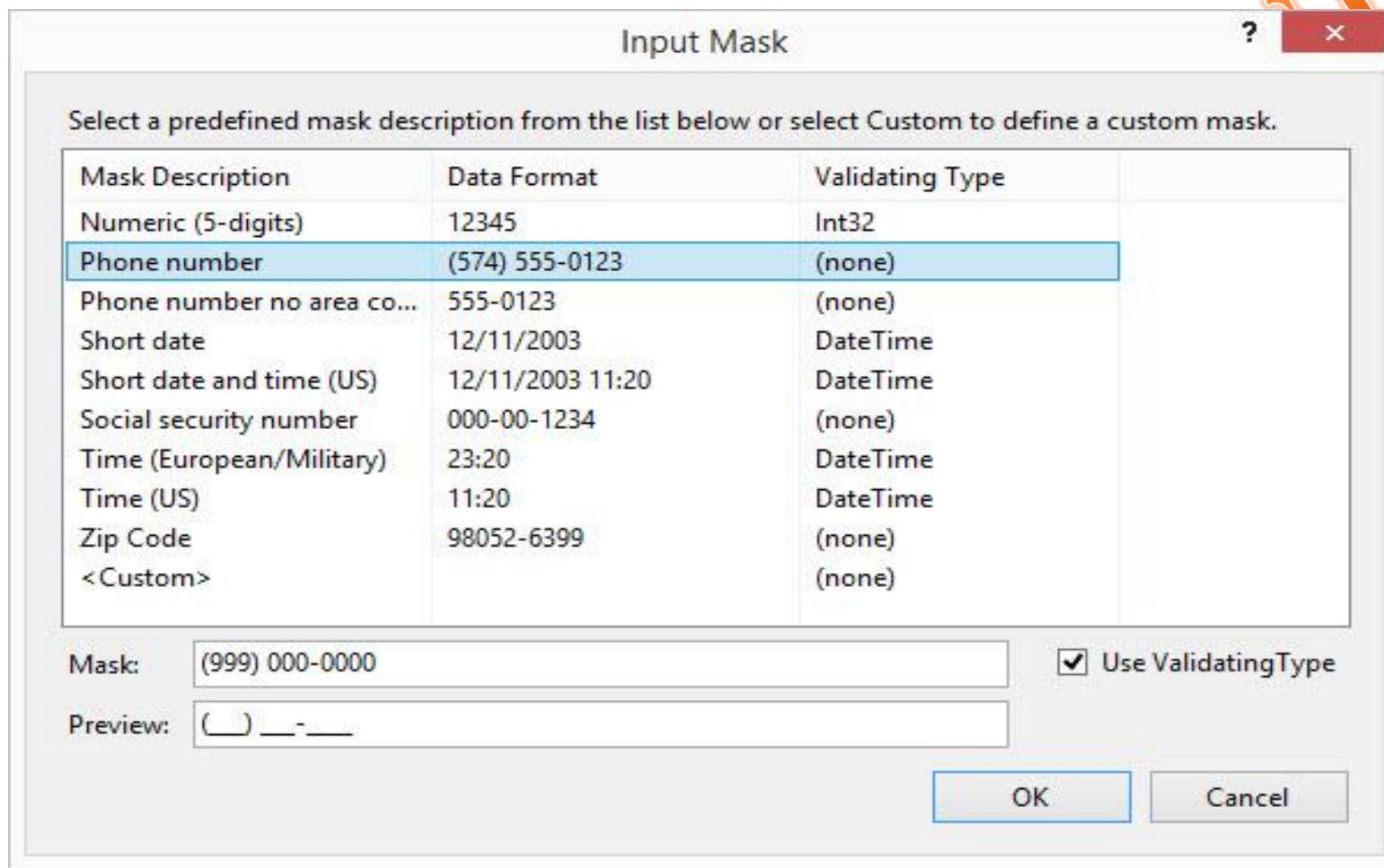
Sr. No	Property Name	Description
1	Size	This property specifies the size of the control.
2	Name	This property specifies a unique name of the control.
3	Text	This property specifies a current text of the control.
4	Mask	Represents the format of the input can be accepted by a control.
5	ReadOnly	This property represent that if you want the text box only readable mode, so no one can perform editing on that textbox

EXAMPLE



CONT...

RTC



3.1.8 Link Label:

- Link Label Control is an extension of Label control to display one or more hyperlinks.
- This Class is inherited from the Label Class so all the functions of the label control can be used with the link label control.

CONT....

Properties:



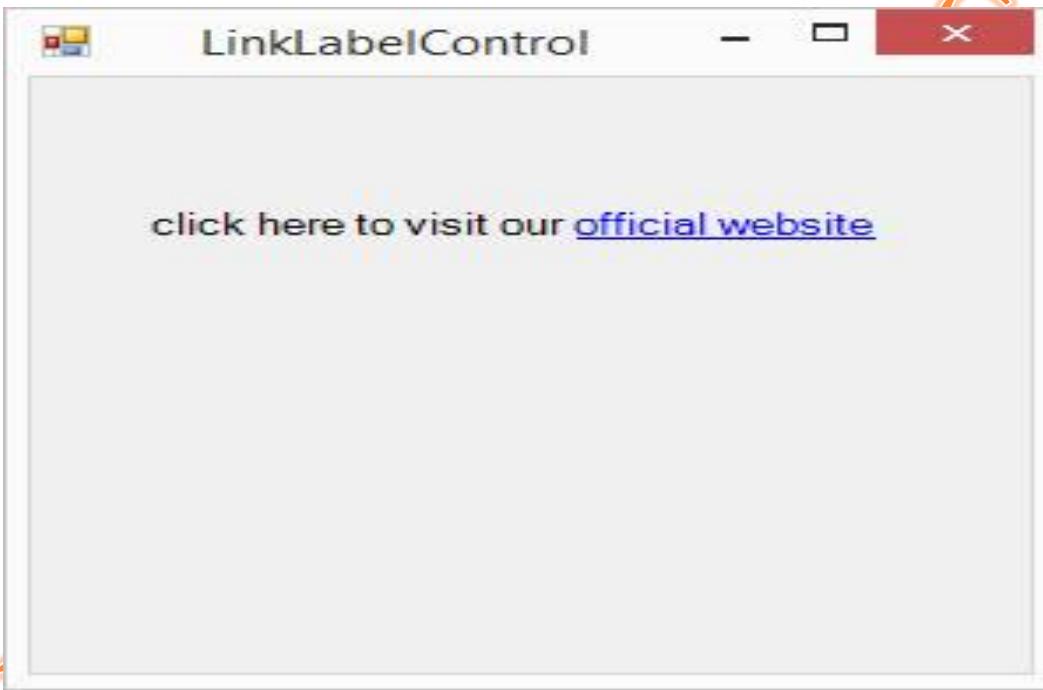
Sr. No	Property Name	Description
1	Text	Property used for the label text.
2	Name	This property specifies a unique name of the control.
3	Image	Gets or sets the image that is displayed in the control.
4	ActiveLinkColor	Property used to specify the color of the active link.
5	LinkColor	Property is used to specify the color for a normal link.
6	BackColor	Property is used to specify the background color for a normal link.

Event:



Sr. No	Event Name	Description
1	LinkClicked	Triggered when the link is clicked.

LINK LABEL EXAMPLE



3.1.9 Check List Box:

- A CheckedListBox control is a List Box control with Checkbox displayed in the left side where user can select a single or multiple items.

Properties:

Sr. No	Property Name	Description
1	BackColor	Property sets the background color of the checked List Box
2	Items	Property returns the items of this control.
3	MultiColumn	Property to get or set the if the checked list box allows multicolumn.
4	ScrollAlwaysVisible	Property sets the scrollbar visible or not
5	SelectionMode	Property sets the selection type for the particular control.
6	Sorted	Displays the list of the content in alphabetic order.

CONT....

Method:



Sr. No	Method Name	Description
1	FindString	Method used to find the string in the first item of the control.
2	SetItemChecked	Method used to check the item in the checked list box.
3	GetItemChecked	Method used to see whether item is checked or not.

Event:

PO

Sr. No	Event Name	Description
1	SelectedIndexChanged	Triggered when the SelectedIndex property is changed

EXAMPLE



3.1.10 Scroll Bars:

- The Scrollbar controls display vertical and horizontal scroll bars on the form.
- This is used for navigating through large amount of information.
- There are two types of scroll bar controls:
 - 1) HScrollBar for horizontal scroll bars and
 - 2) VScrollBar for vertical scroll bars.

CONT....

Properties:

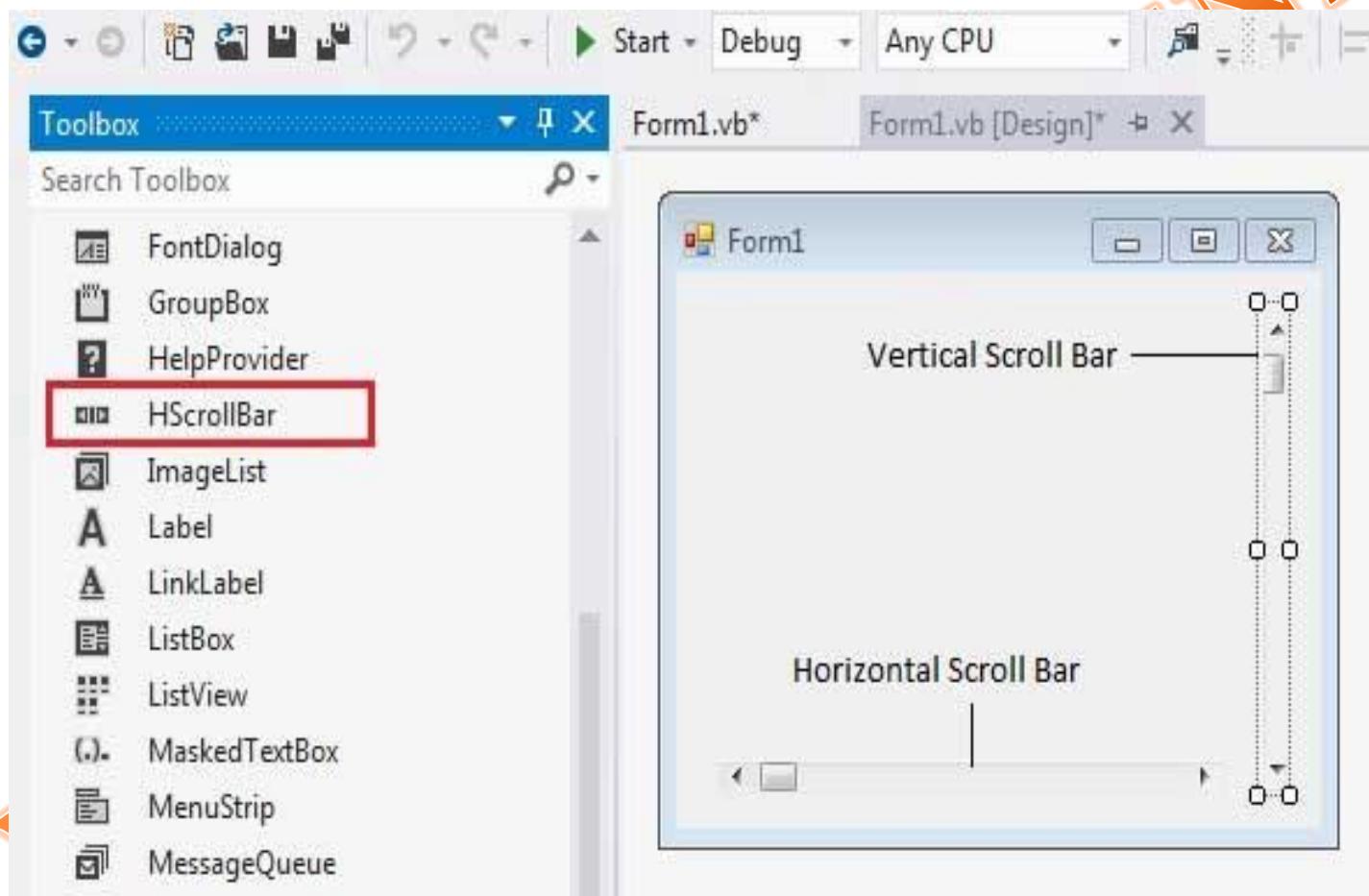
Sr. No	Property Name	Description
1	Location	Gets or sets the location of the control.
2	Maximum	Gets or sets the upper limit of values of the scrollable range.
3	Minimum	Gets or sets the lower limit of values of the scrollable range.
4	Value	Gets or sets a numeric value that represents the current position of the scroll box on the scroll bar control.

CONT...

Event:

Sr. No	Event Name	Description
1	Click	Occurs when the control is clicked.
2	DoubleClick	Occurs when the user double-clicks the control.
3	Scroll	Occurs when the control is moved.

EXAMPLE



3.1.11 Timer:

- Timer Control is used to set time intervals, this control is visible only at design time and not in the runtime.

Properties:

Sr. No	Property Name	Description
1	Enabled	Property used to Get or set whether the timer is running.
2	Interval	Property used to set or get the time in millisecond between the timer clicks.

CONT....

Method:

Sr. No	Method Name	Description
1	Start	Method used to start timer.
2	Stop	Method used to stop timer.

Event:

Sr. No	Event Name	Description
1	Tick	Triggered when the time interval has elapsed.

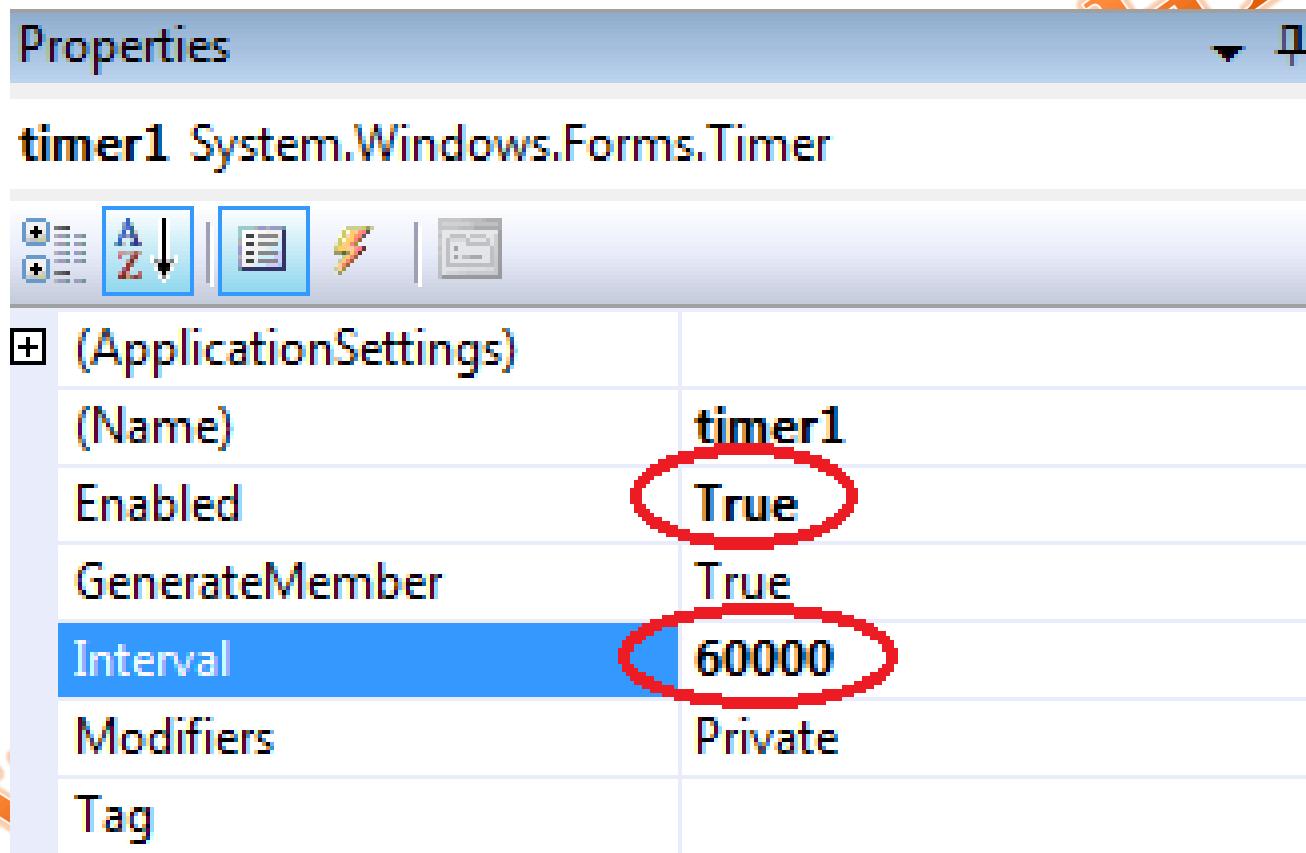
EXAMPLE



VPMy

.HVIC

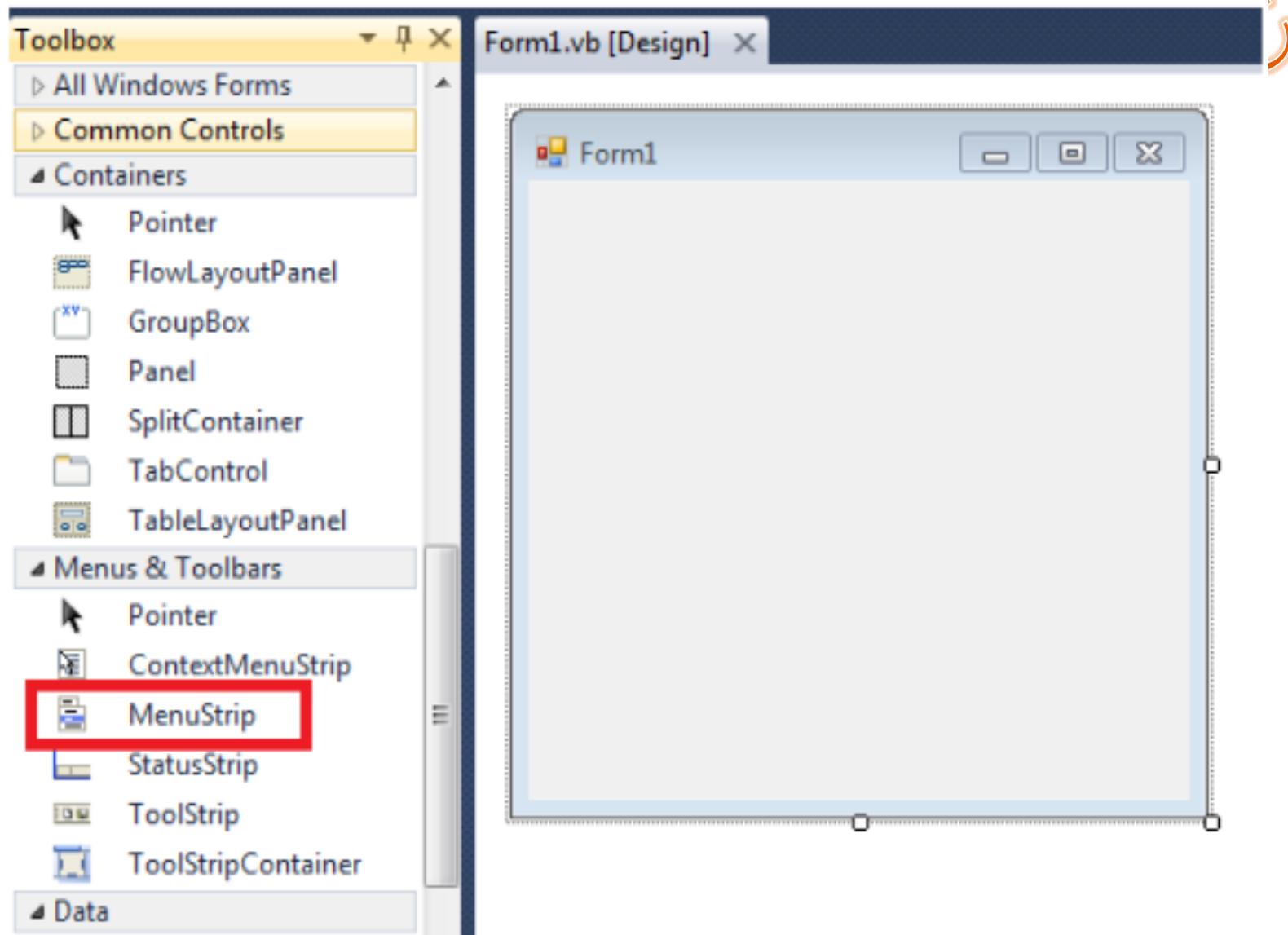
EXAMPLE



3.2 WORKING WITH MENU:

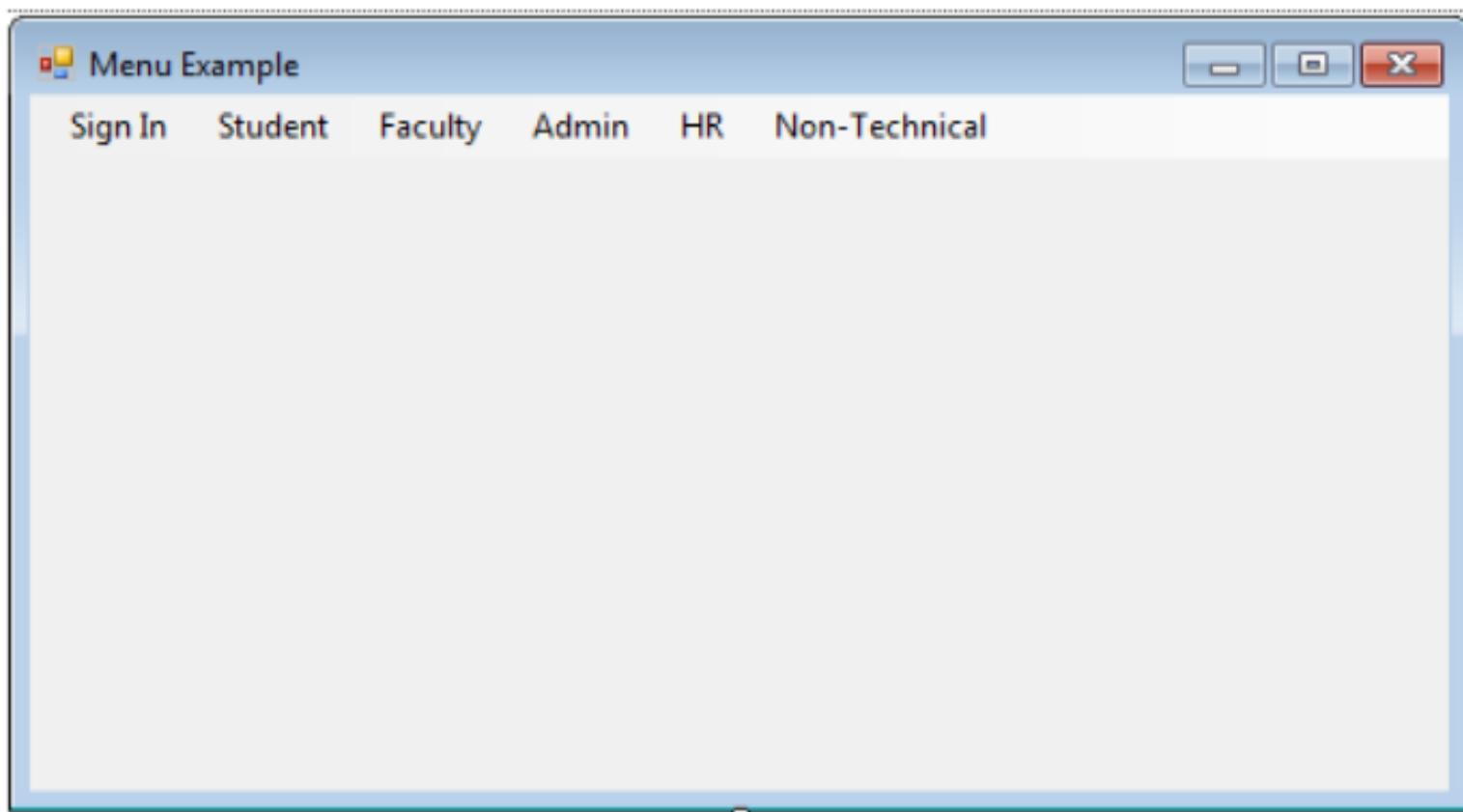
- First of all click on the Microsoft Visual Studio click on the new project ,now select windows application give title “Working_With_Menus”
- Now from the toolbox of drag and drop the menu strip control on the form, which is shown in next slide,

CONT....



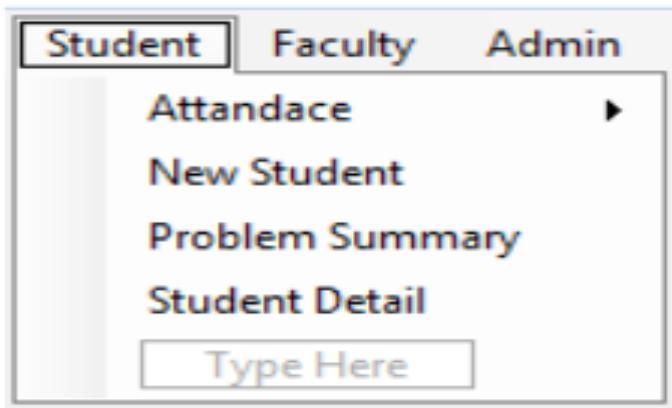
CONT....

- After adding this control to the form, we have to create menu, so for that take your cursor on to the menu strip control on the form, now write the name of the menus which you have to create.



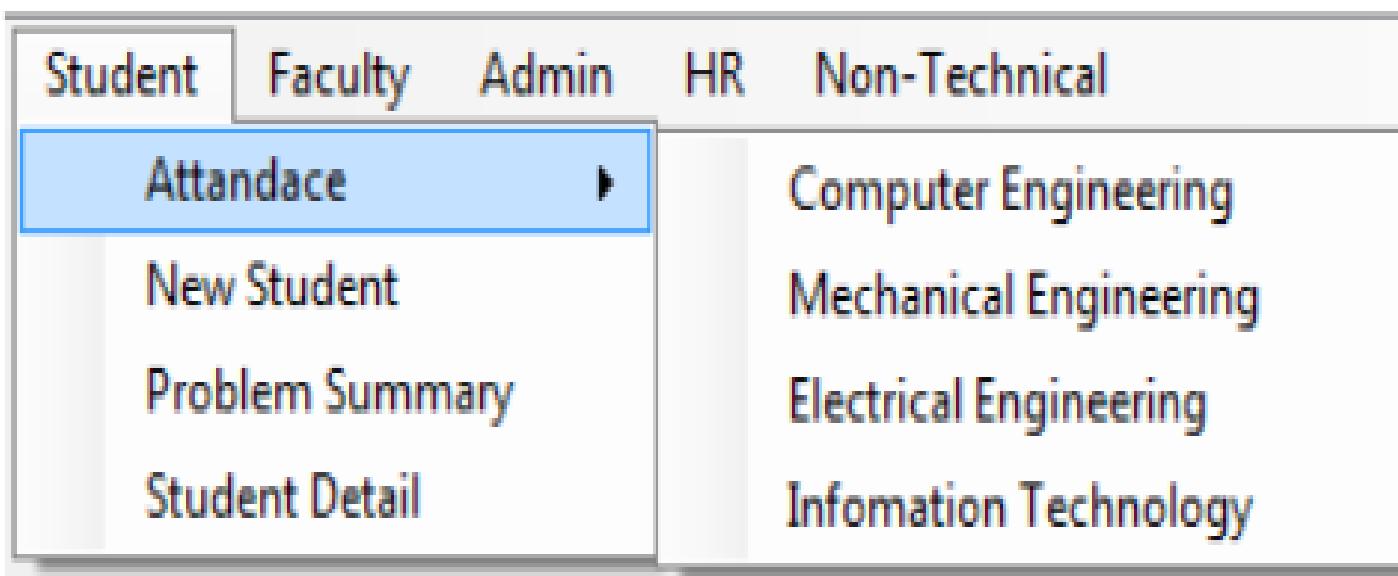
3.2.1 MENU STRIP

- We had created menu strip which contains menu like Sign In, Student, Faculty, Admin, HR, Nontechnical.
- Now if we want to create sub menu of the Student menu, then keep your mouse on the Student menu and then click on that menu, it will automatically create a submenu of student menu, then you can create submenu



CONT....

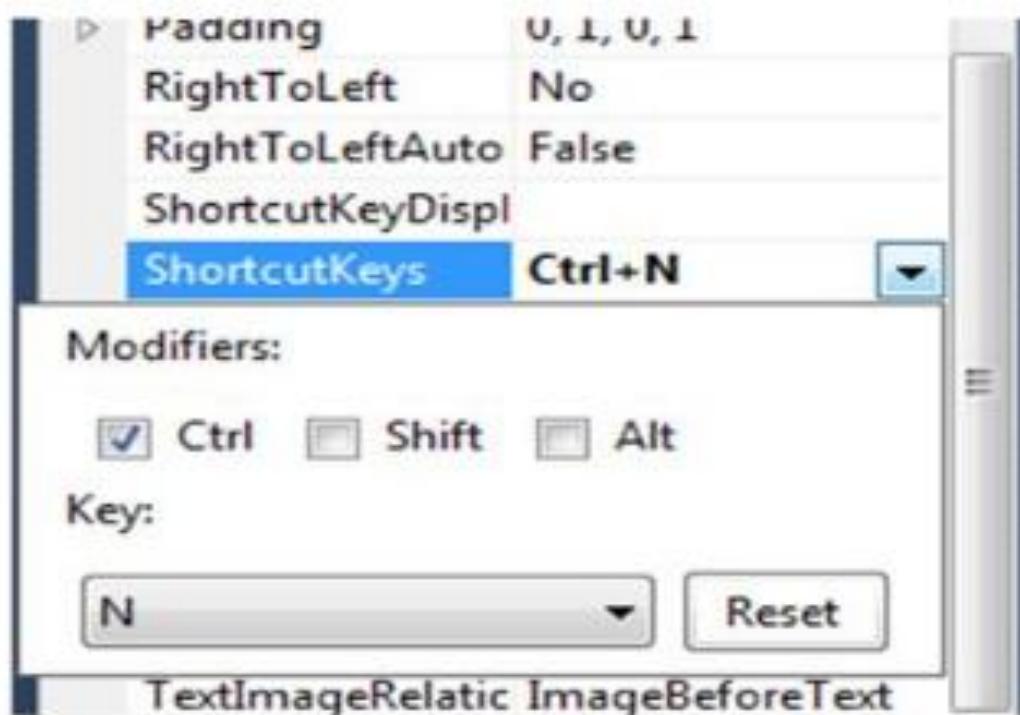
- If we want to create a sub option in the sub menu, then also we can do that, just go to the sub menu name and click there, we can create that also, which is shown below



CONT....

- If you want delete a menu then just go that menu and press DELETE button , then it will be deleted from the menu bar.
- If you want to assign any kind of short cut to menu, then go to that menu , for example, we want to assign short cut menu to the New Student menu, than click on the New Student menu and click on the properties of that menu.
- In this menu we assigning short cut keys like **CTRL+N**

CONT....

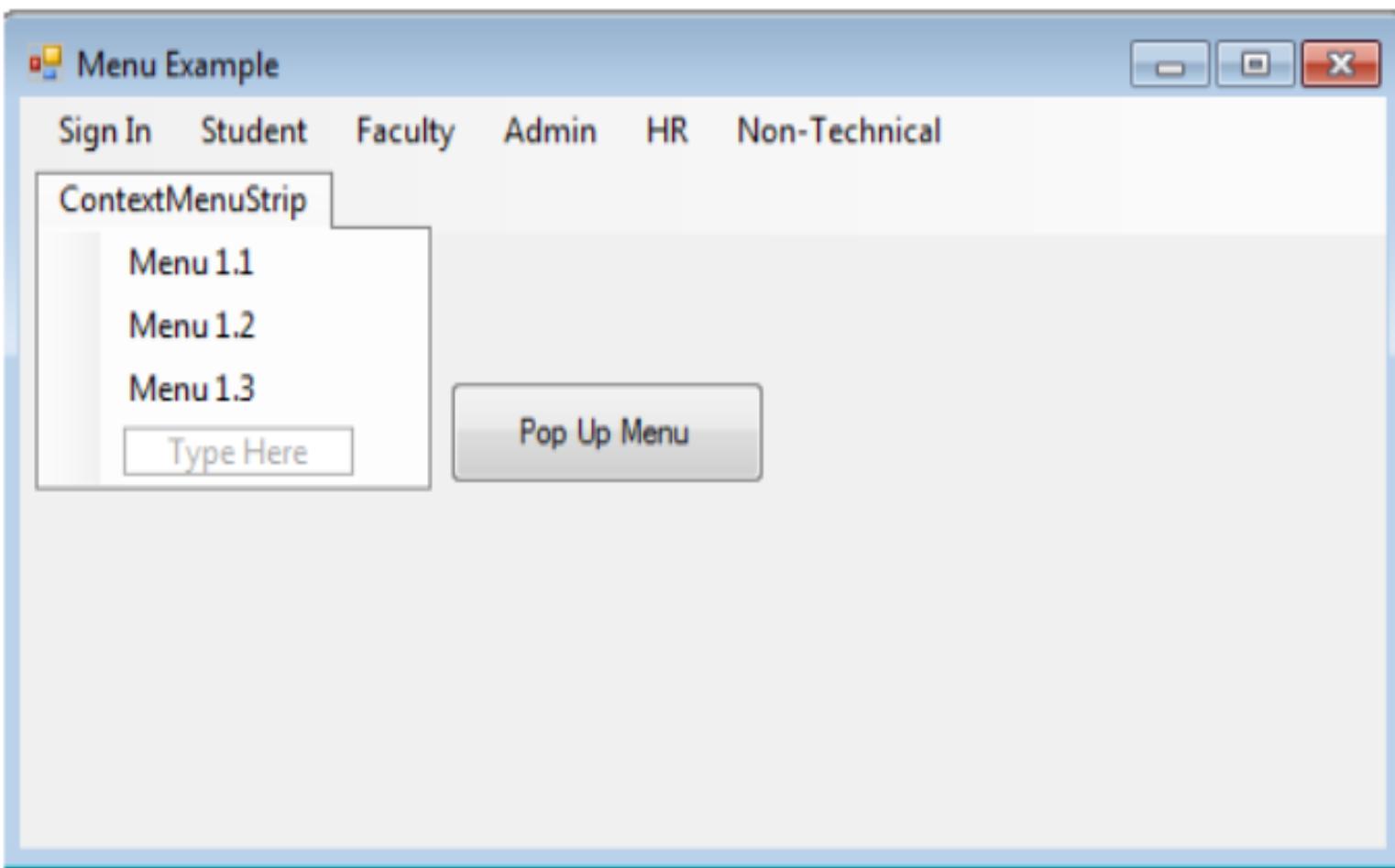


CONT....

PopUp Menu

- In VB.NET we have the functionality of the context menu strip.
- So firstly drag and drop the control context menu strip on the form

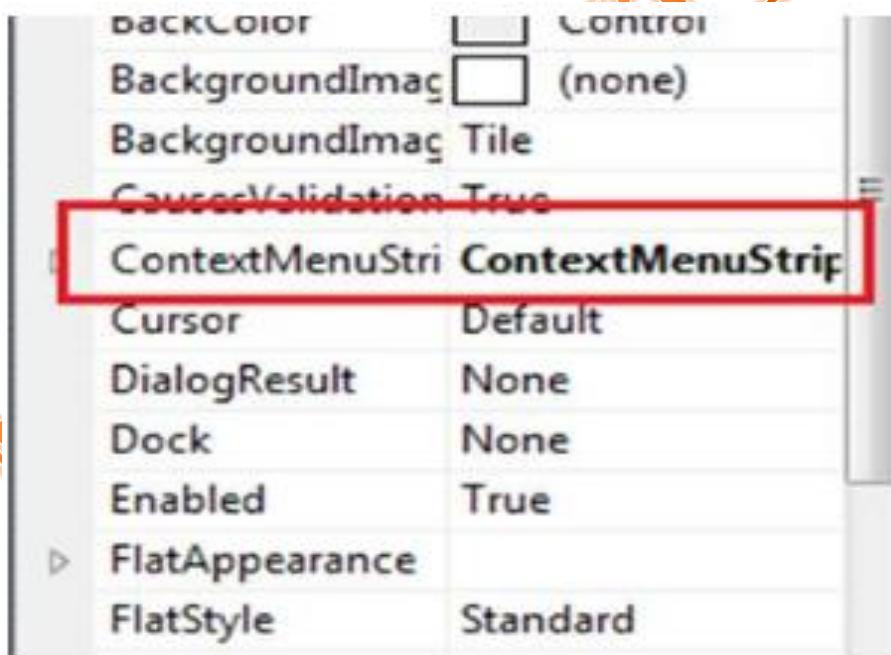
CONT....



CONT....

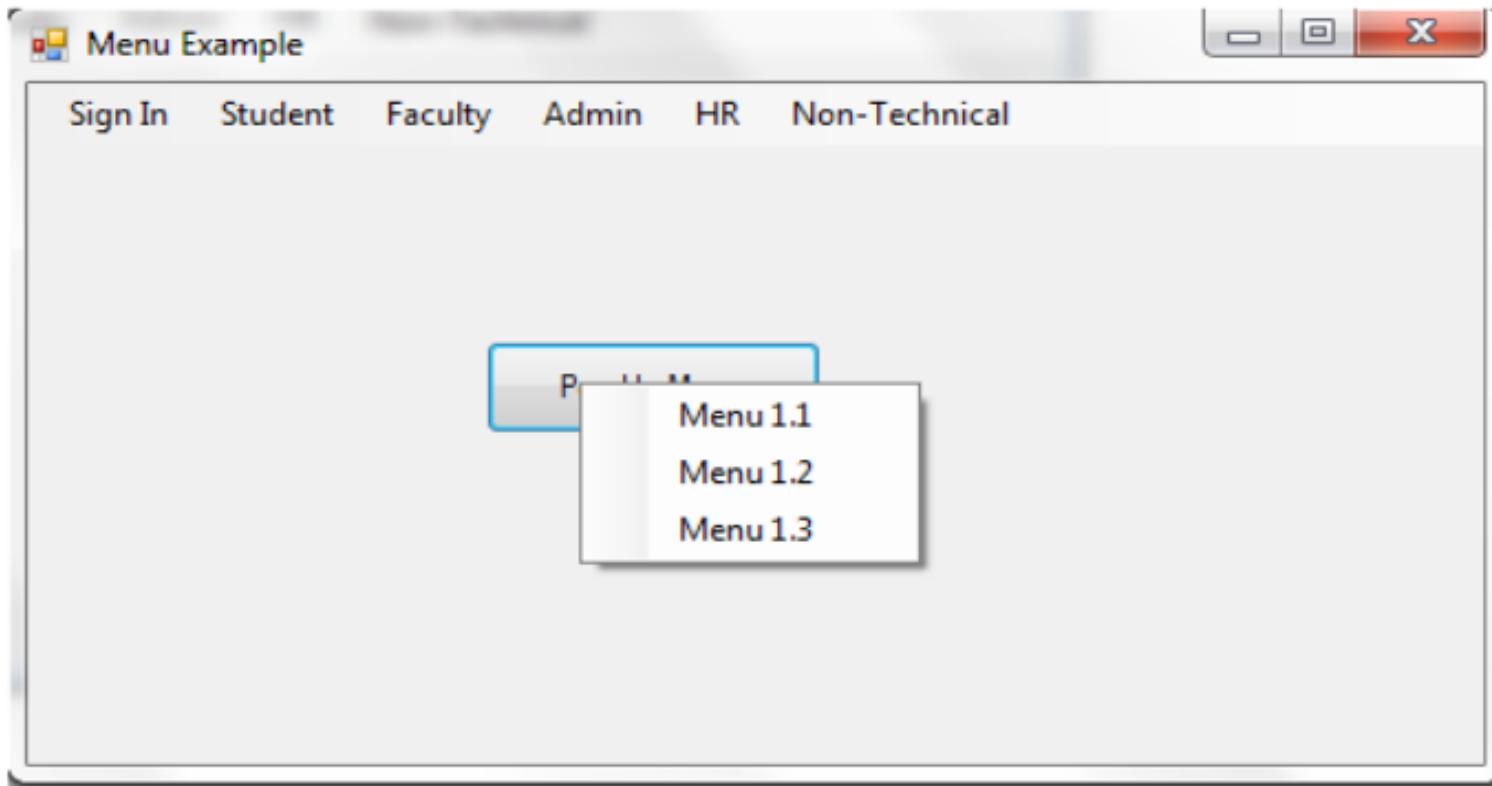
3.2.2 Context Menu Strip

- Now add one button on the form, after that click on the button, in the button properties there will be one property called Context Menu Strip, select there our context menu strip.



CONT....

- Now for the popup menu, run the project then, after execute the project, and right click on the button, so at that time you can see the context menu (popup) menu.



3.2.3 TOOL STRIP

- Tool Strip control provides functionality of a Windows toolbar controls in Visual Studio 2010.
- Tool Strip class represents a Tool Strip control in Windows Forms and serves as a base class of Menu Strip, Status Strip, and Context Menu Strip classes.

EXAMPLE

