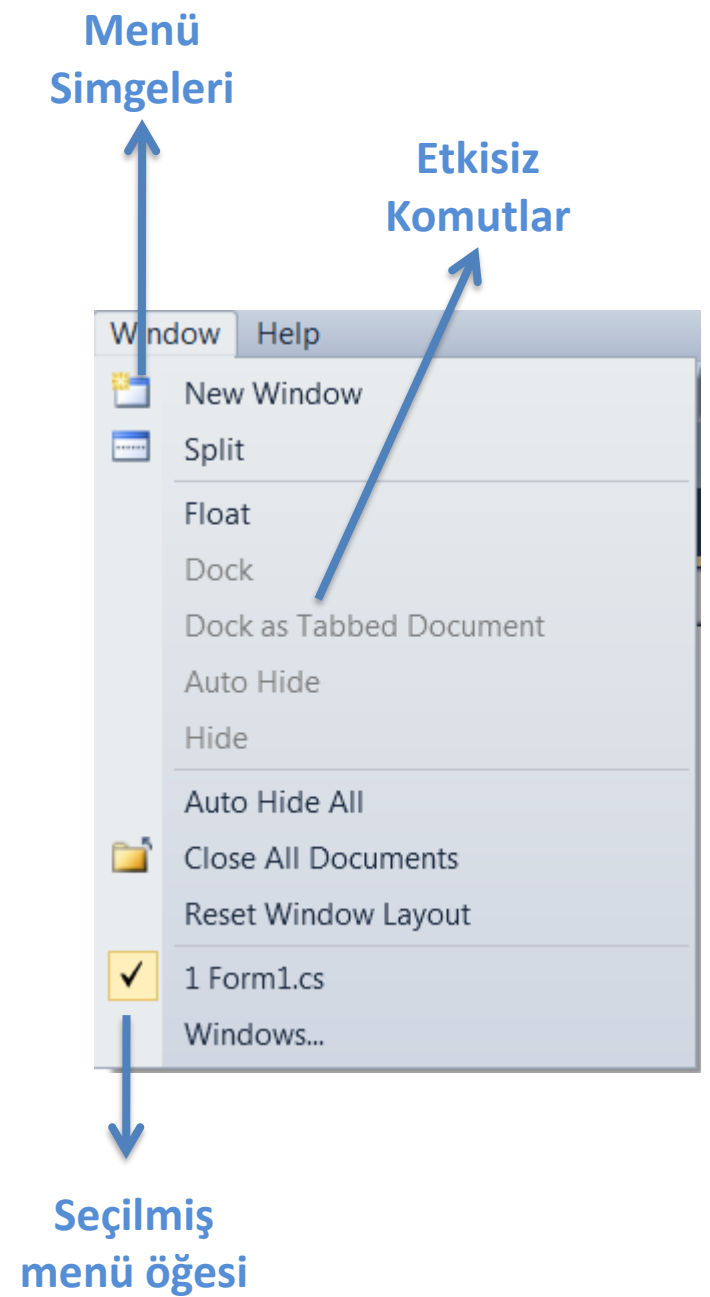
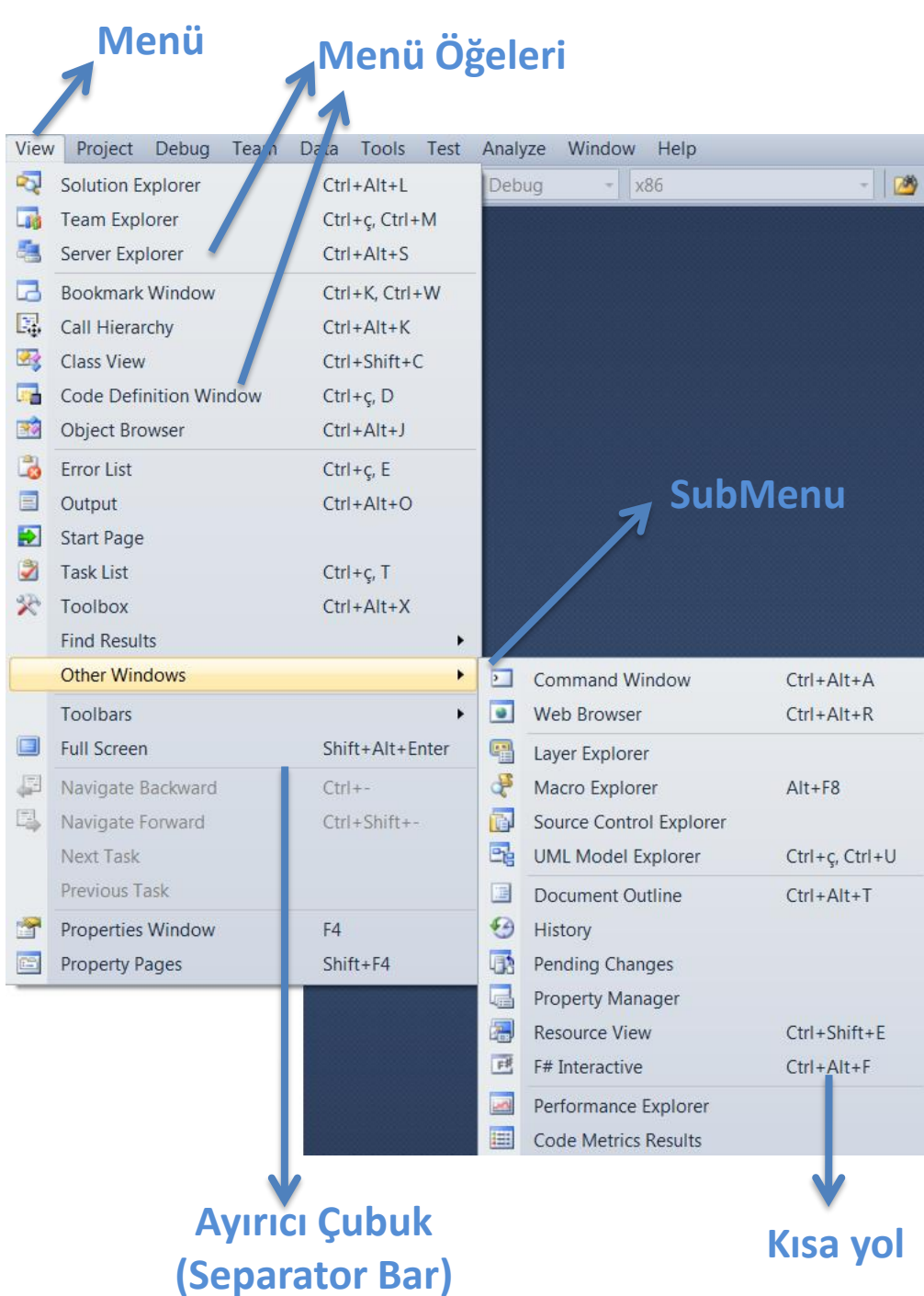


Windows Forms kullanarak Graphical User Interface-2

Yrd. Doç. Dr. Özgü Can

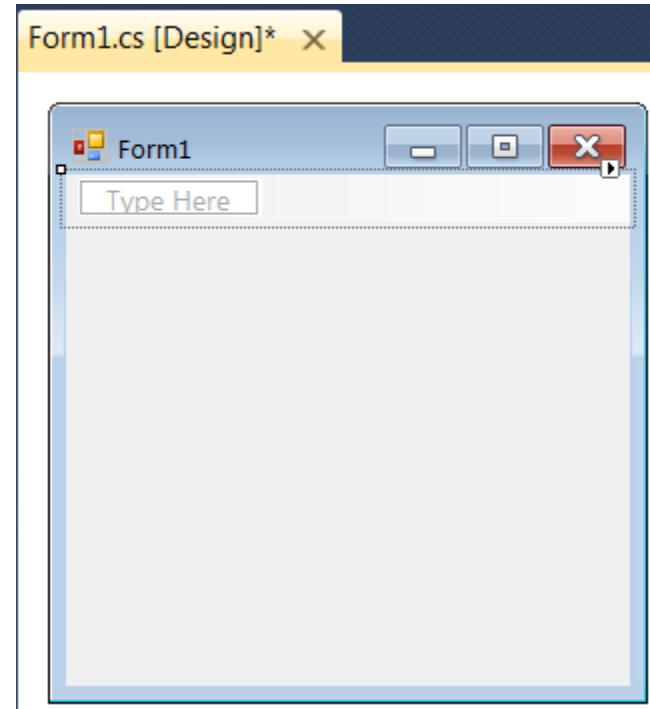
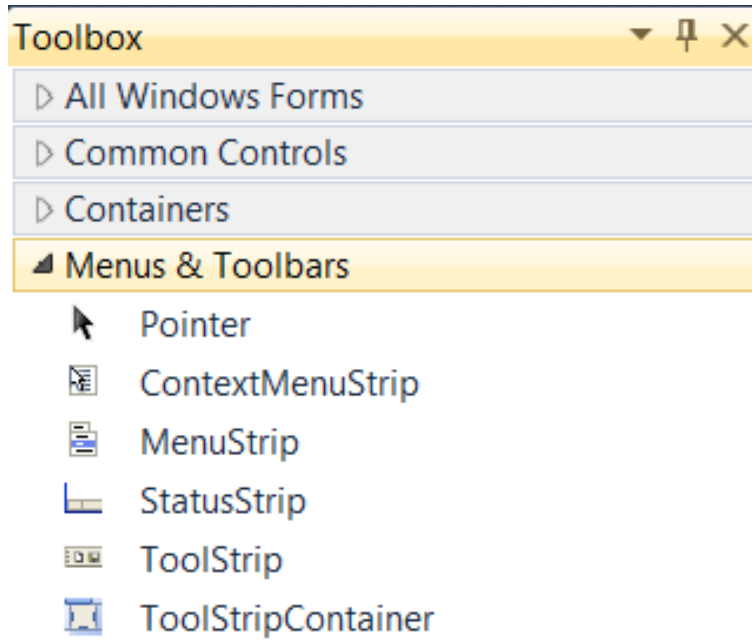
Menü

- Windows uygulamalarında birbiri ile ilişkisi olan komutların gruplanmasında kullanılır.
 - **Open**
 - **Save**
- GUI'yi karmaşıklaştırmadan komutları düzenler.



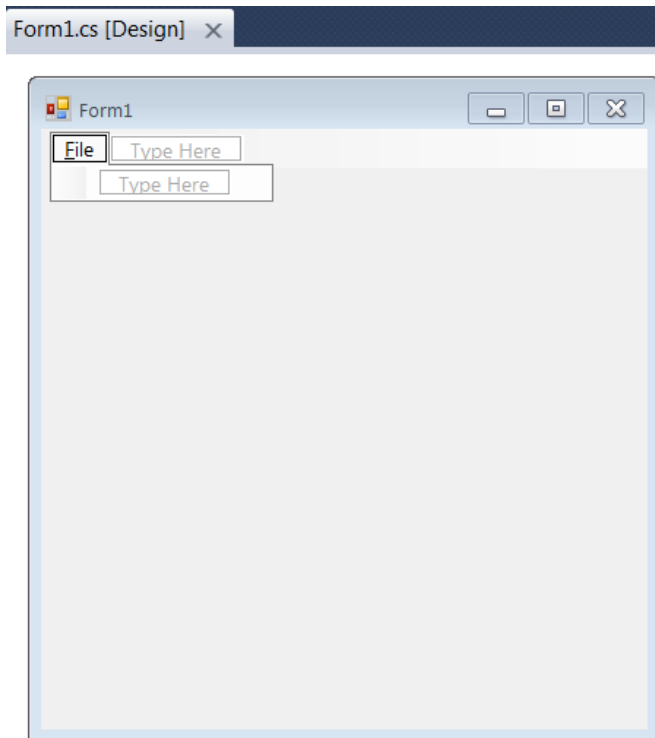
Menü


- Toolbox → **MenuStrip**
- Menü öğeleri ekleme → **Type Here**



Menü

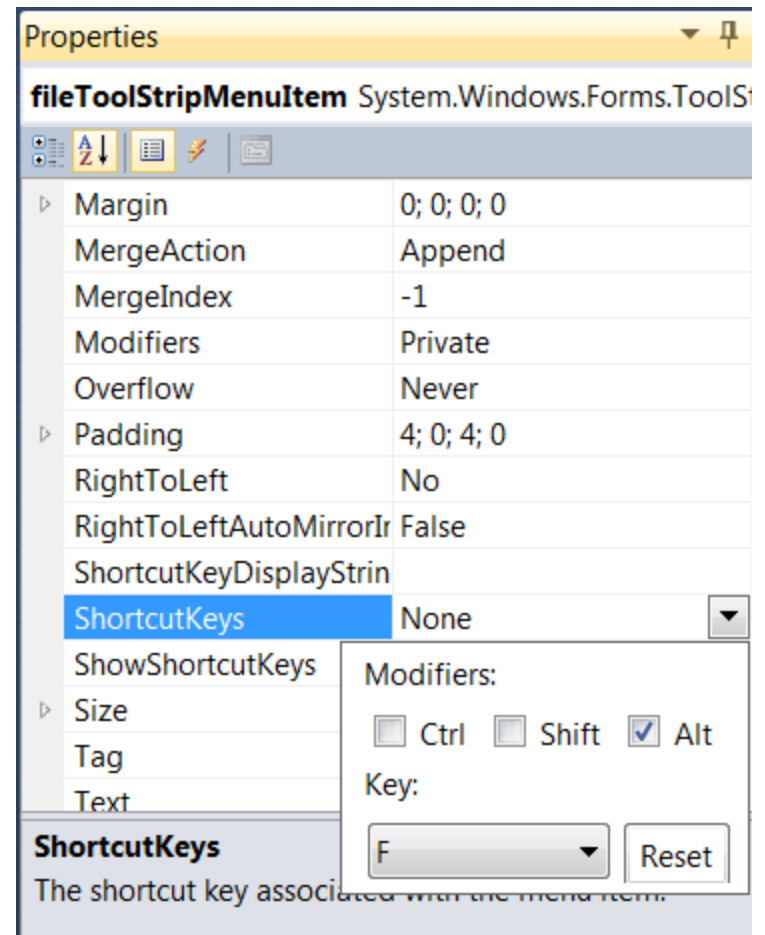
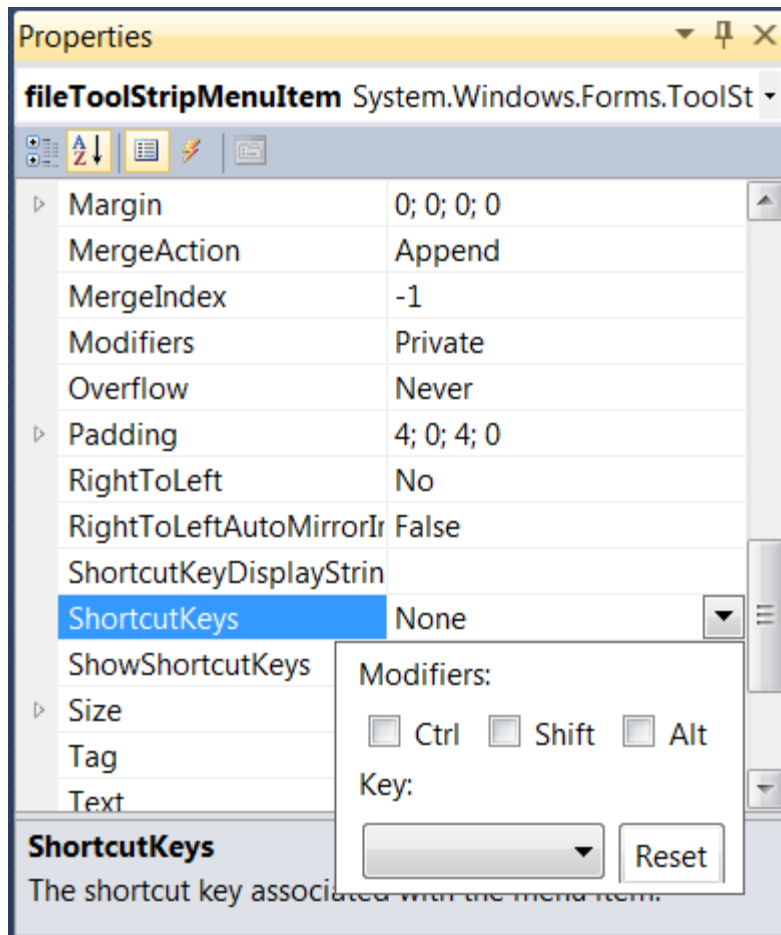
- Kısa yol → Text'in başına & eklenir.



Properties	
fileToolStripMenuItem System.Windows.Forms.ToolStripItem	
	
RightToLeft	No
RightToLeftAutoMirror	False
ShortcutKeyDisplayString	
ShortcutKeys	None
ShowShortcutKeys	True
Size	41; 23
Tag	
Text	&File

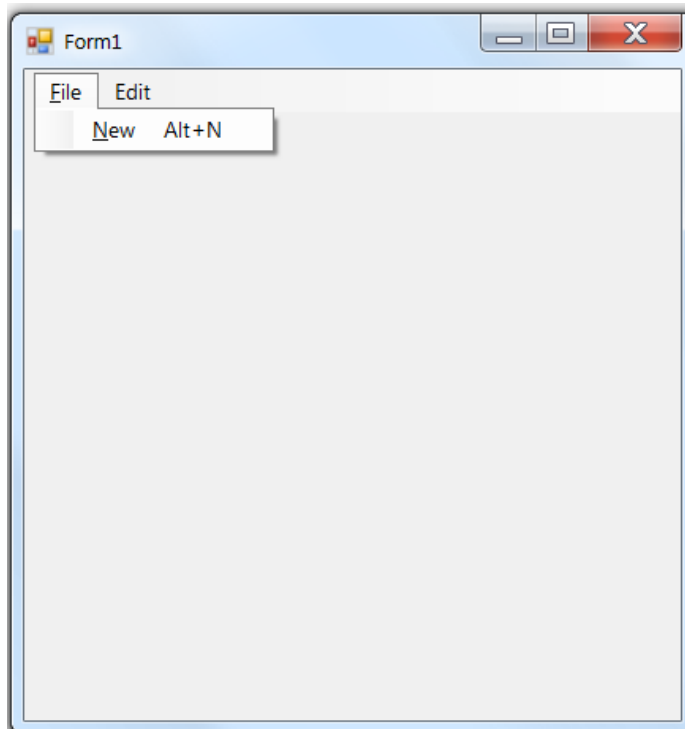
Menü

Başka kısa yol tuşları eklemek için → **ShortcutKeys**

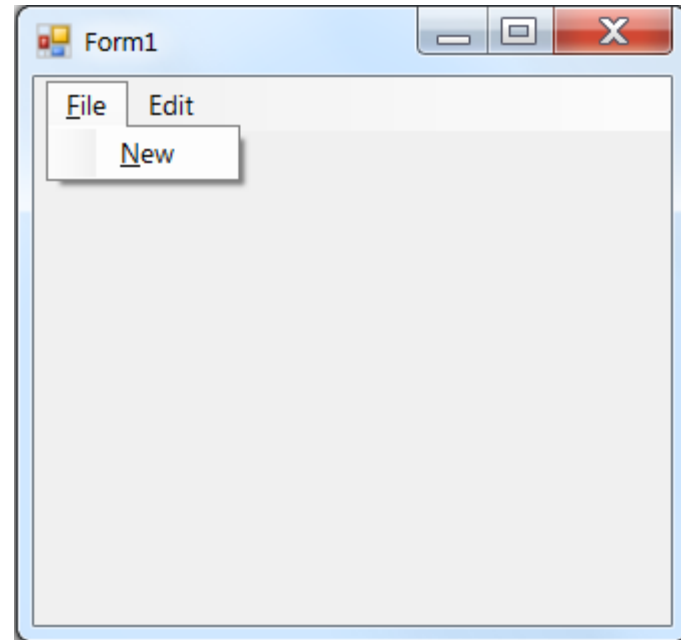


Menü

- Kısa yol tuşlarını saklamak için:
 - **ShowShortcutKeys = False**

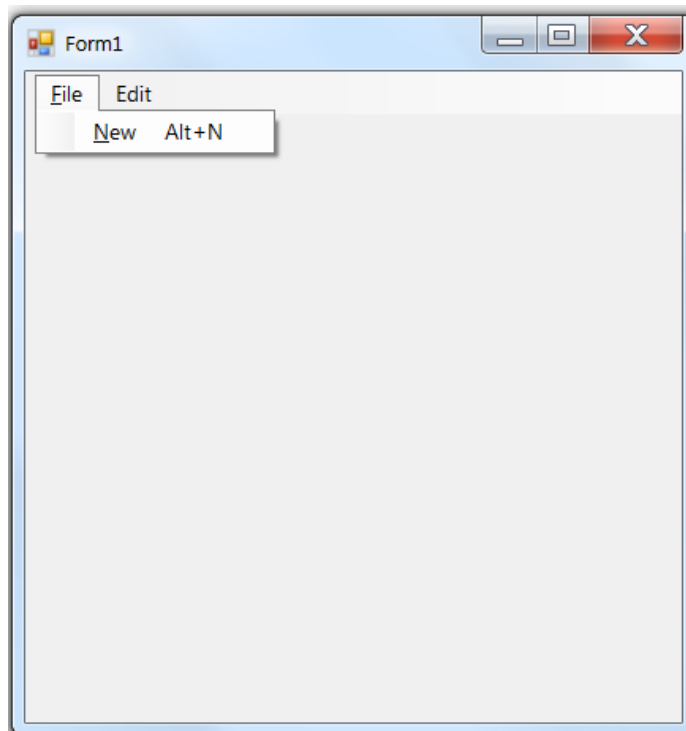


ShortcutKeys	Alt+N
ShowShortcutKeys	False

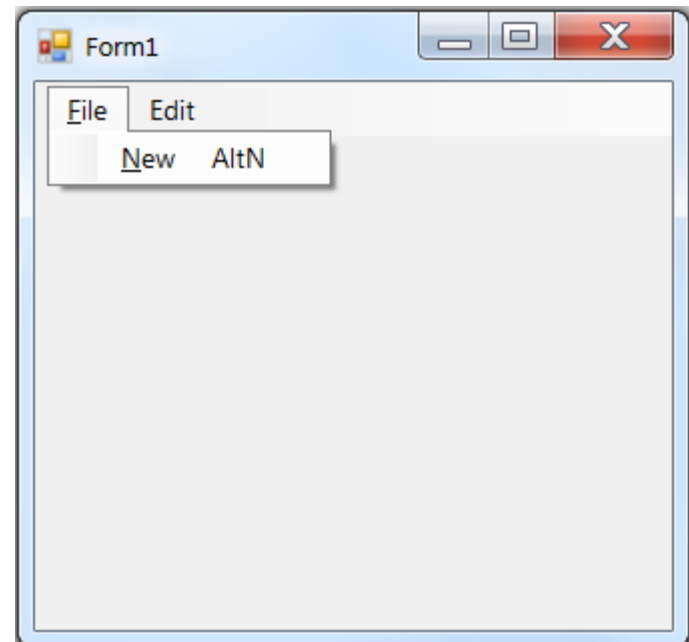


Menü

- Kısa yol tuşlarının görünümünü değiştirmek:
 - **ShowShortcutKeyDisplayString**



ShortcutKeyDisplayString	AltN
ShortcutKeys	Alt+N
ShowShortcutKeys	True



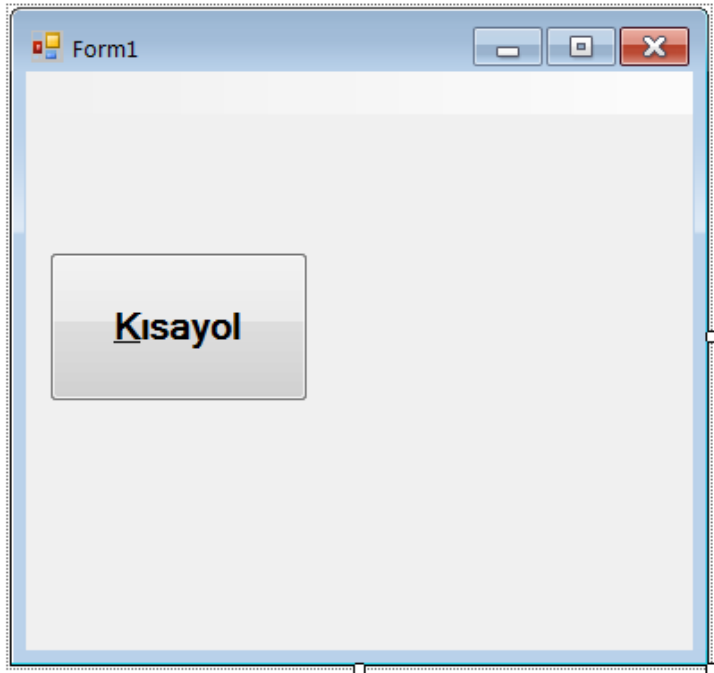
Menü

- **Button**'a kısa yol verme:
 - **Button**'un **Text** özelliğinde, kısa yol olması istenilen harfin önüne **&** eklenir.

NOT: Uygulama çalışırken alt çizgi görünmezse **Alt** tuşuna basınız.

Örnek Uygulama – Kısa yol

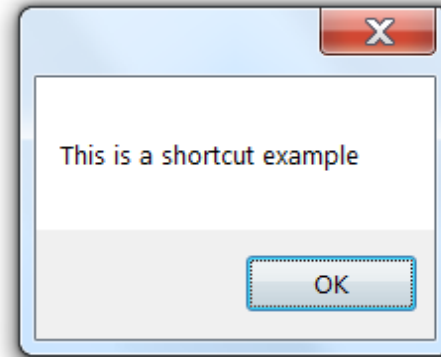
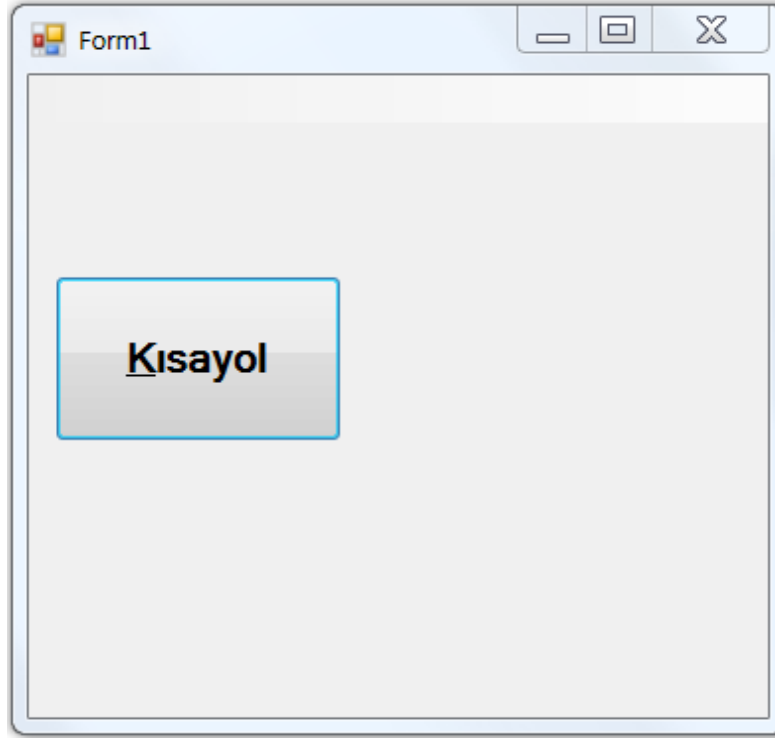
Form1.cs Form1.cs [Design] ✕



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

        private void button1_Click(object sender, EventArgs e)
        {
            MessageBox.Show("This is a shortcut example");
        }
    }
}
```

Örnek Uygulama – Kısa yol



K tuşuna basıldığında

NOT

Menu uygulamalarında, menü öğesinin isminden sonra (...) kullanıldığında, kullanıcıdan **daha fazla bilgi** isteneceği belirtilmektedir.

ÖR: *Save As...*

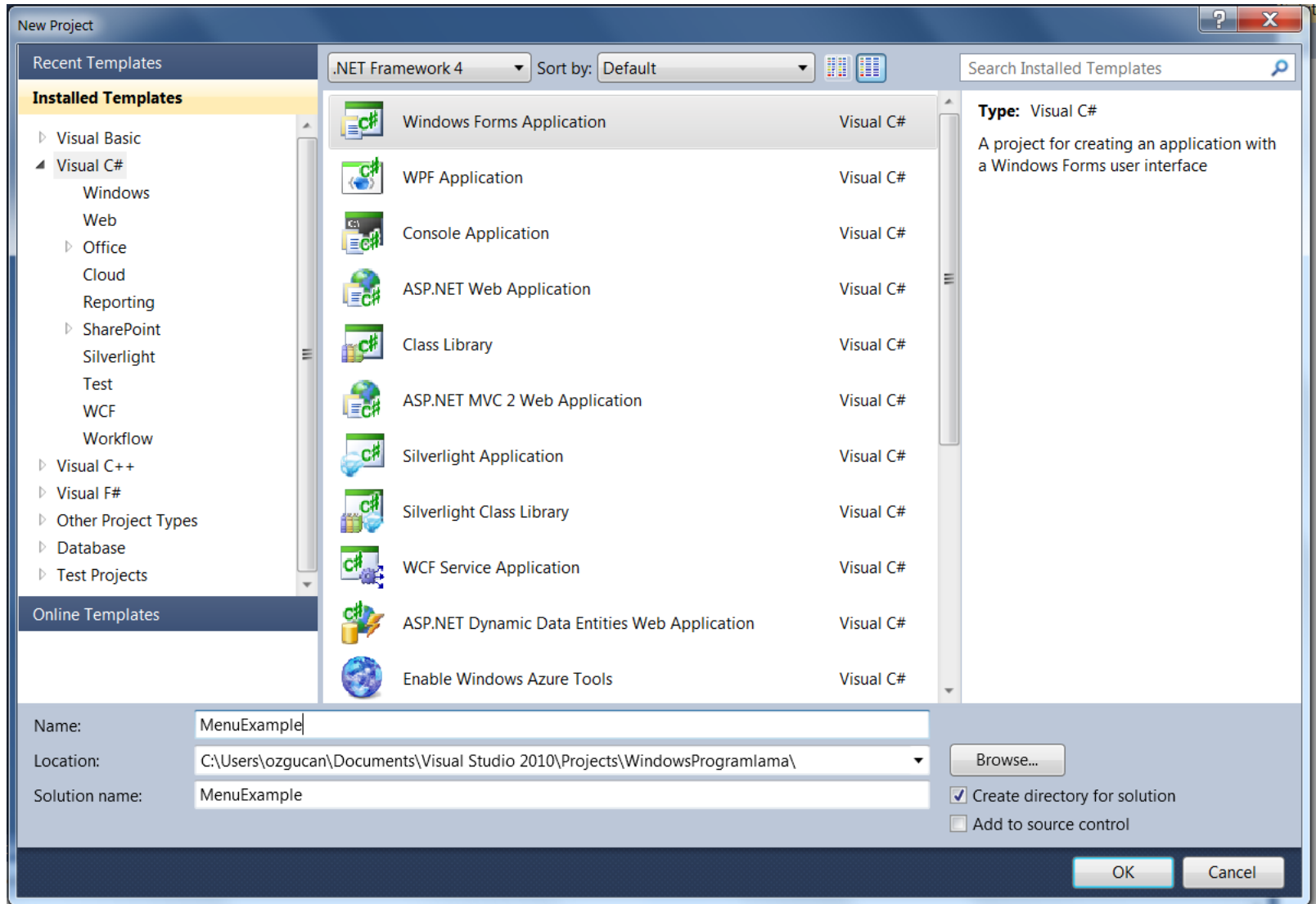
İşlem **hemen** gerçekleştirilecekse böyle bir durum söz konusu değildir.

ÖR: *Save*

Menü

MenuStrip and ToolStripMenuItem properties and an event	Description
<i>MenuStrip Properties</i>	
RightToLeft	Causes text to display from right to left. This is useful for languages that are read from right to left.
<i>ToolStripMenuItem Properties</i>	
Checked	Indicates whether a menu item is checked. The default value is false, meaning that the menu item is unchecked.
CheckOnClick	Indicates that a menu item should appear checked or unchecked as it is clicked.
ShortcutKeyDisplayString	Specifies text that should appear beside a menu item for a shortcut key. If left blank, the key names are displayed. Otherwise, the text in this property is displayed for the shortcut key.
ShortcutKeys	Specifies the shortcut key for the menu item (e.g., <Ctrl>-F9 is equivalent to clicking a specific item).
ShowShortcutKeys	Indicates whether a shortcut key is shown beside menu item text. The default is true, which displays the shortcut key.
Text	Specifies the menu item's text. To create an <i>Alt</i> access shortcut, precede a character with & (e.g., &File to specify a menu named File with the letter F underlined).
<i>Common ToolStripMenuItem Event</i>	
Click	Generated when an item is clicked or a shortcut key is used. This is the default event when the menu is double clicked in the designer.

Örnek Uygulama - Menü



Örnek Uygulama - Menü

- **File**

`fileToolStripMenuItem`

- **About**

`aboutToolStripMenuItem`

- **Exit**

`exitToolStripMenuItem`

- **Format** `formatToolStripMenuItem`

- **Color**

`colorToolStripMenuItem`

- **Black** `blackToolStripMenuItem`
 - **Blue** `blueToolStripMenuItem`
 - **Red** `redToolStripMenuItem`
 - **Green** `greenToolStripMenuItem`

- **Font**

`fontToolStripMenuItem`

- **Times New Roman**
`timesToolStripMenuItem`
 - **Courier** `courierToolStripMenuItem`
 - **Comic Sans** `comicToolStripMenuItem`

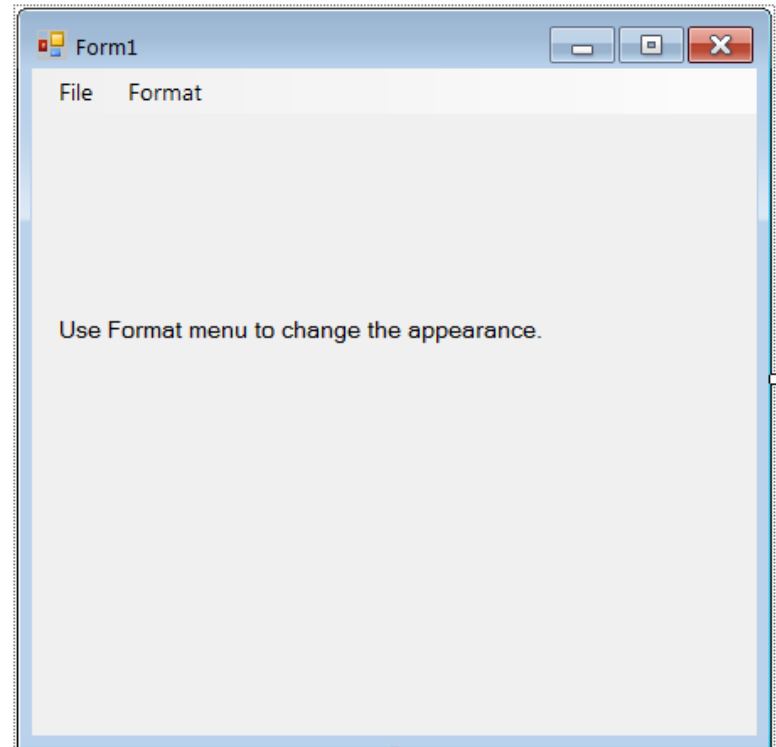
Separator Bar

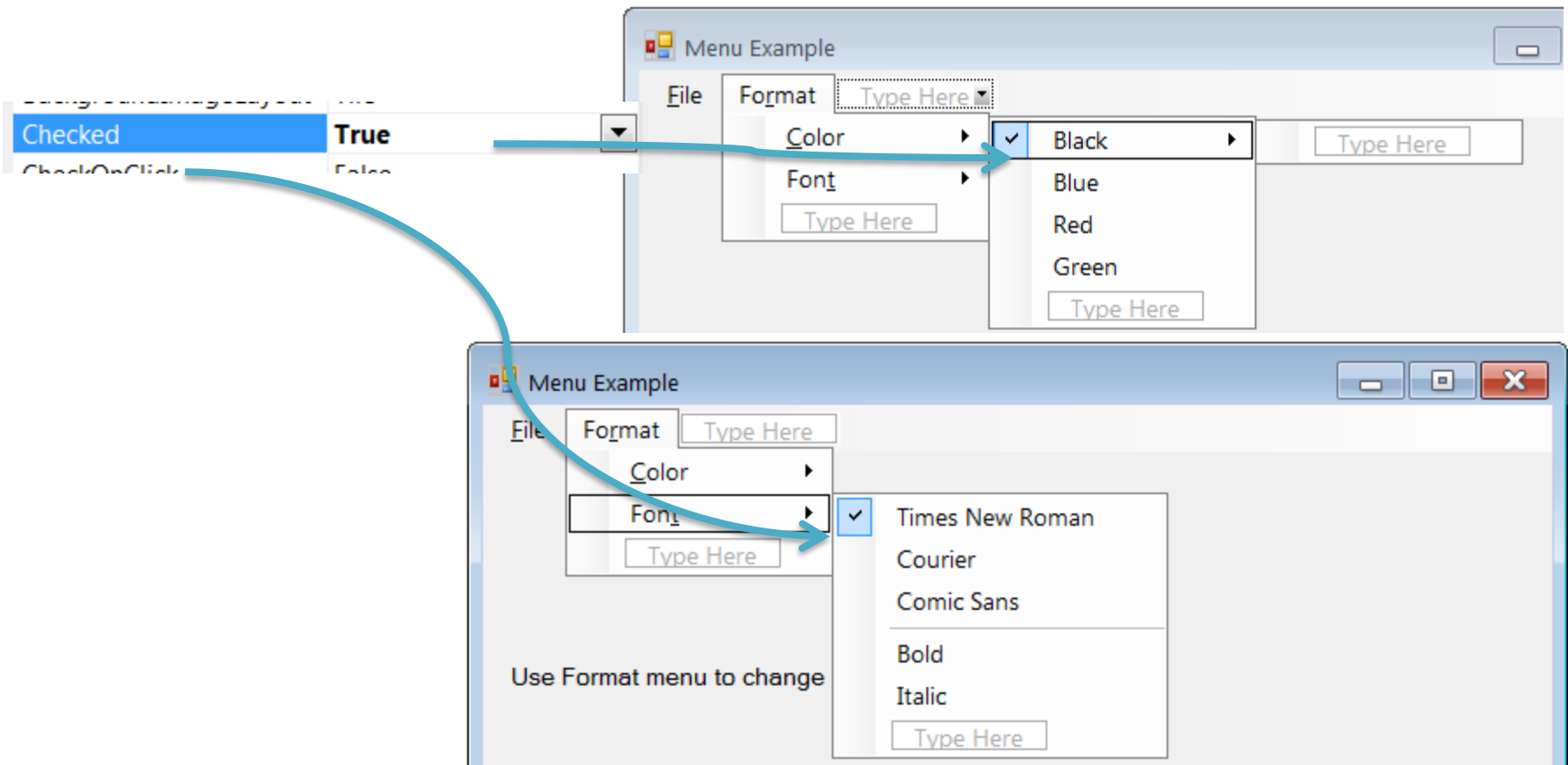
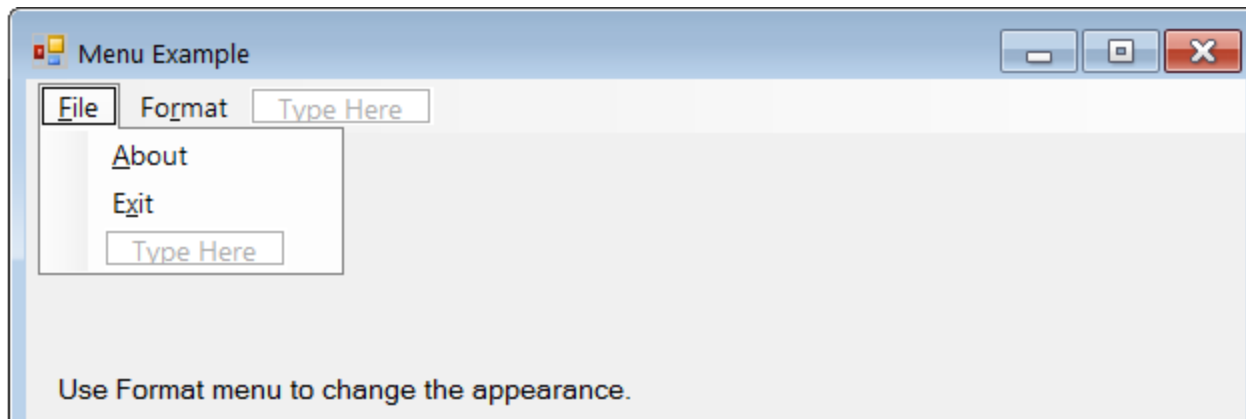
`toolStripSeparator1`

- **Bold** `boldToolStripMenuItem`
 - **Italic** `italicToolStripMenuItem`

Örnek Uygulama - Menü

- Label
 - Name = `displayLabel`
 - Text = Use Format menu to change the appearance.





Örnek Uygulama - Menü

- **About** ve **Exit** submenüleri için:

```
private void aboutToolStripMenuItem_Click(object sender, EventArgs e)
{
    MessageBox.Show("This is an example\nof using menus.", "About", MessageBoxButtons.OK, MessageBoxIcon.Information);
}

private void exitToolStripMenuItem_Click(object sender, EventArgs e)
{
    Application.Exit();
}
```

Örnek Uygulama - Menü

- **ClearColor()** ve **Black** submenüsü:

```
// reset checkmarks for Color ToolStripMenuItems
private void ClearColor()
{
    // clear all checkmarks
    blackToolStripMenuItem.Checked = false;
    blueToolStripMenuItem.Checked = false;
    redToolStripMenuItem.Checked = false;
    greenToolStripMenuItem.Checked = false;
}

private void blackToolStripMenuItem_Click(object sender, EventArgs e)
{
    // reset checkmarks for Color ToolStripMenuItems
    ClearColor();

    // set color to Black
    displayLabel.ForeColor = Color.Black;
    blackToolStripMenuItem.Checked = true;
}
```

Örnek Uygulama - Menü

- **Blue**, **Red** ve **Green** submenüleri:

```
private void blueToolStripMenuItem_Click(object sender, EventArgs e)
{
    // reset checkmarks for Color ToolStripMenuItems
    ClearColor();

    // set color to Blue
    displayLabel.ForeColor = Color.Blue;
    blueToolStripMenuItem.Checked = true;
}

private void redToolStripMenuItem_Click(object sender, EventArgs e)
{
    // reset checkmarks for Color ToolStripMenuItems
    ClearColor();

    // set color to Red
    displayLabel.ForeColor = Color.Red;
    redToolStripMenuItem.Checked = true;
}

private void greenToolStripMenuItem_Click(object sender, EventArgs e)
{
    // reset checkmarks for Color ToolStripMenuItems
    ClearColor();

    // set color to Green
    displayLabel.ForeColor = Color.Green;
    greenToolStripMenuItem.Checked = true;
}
```

Örnek Uygulama - Menü

- **ClearFont()** ve **Times New Roman** submenüsü:

```
// reset checkmarks for Font ToolStripMenuItems
private void ClearFont()
{
    // clear all checkmarks
    timesToolStripMenuItem.Checked = false;
    courierToolStripMenuItem.Checked = false;
    comicToolStripMenuItem.Checked = false;
}

private void timesToolStripMenuItem_Click(object sender, EventArgs e)
{
    // reset checkmarks for Font ToolStripMenuItems
    ClearFont();

    // set Times New Roman font
    timesToolStripMenuItem.Checked = true;
    displayLabel.Font = new Font("Times New Roman", 14, displayLabel.Font.Style);
}
```

Örnek Uygulama - Menü

- **Courier ve Comic Sans** submenüleri:

```
private void courierToolStripMenuItem_Click(object sender, EventArgs e)
{
    // reset checkmarks for Font ToolStripMenuItems
    ClearFont();

    // set Courier font
    courierToolStripMenuItem.Checked = true;
    displayLabel.Font = new Font("Courier", 14, displayLabel.Font.Style);
}

private void comicToolStripMenuItem_Click(object sender, EventArgs e)
{
    // reset checkmarks for Font ToolStripMenuItems
    ClearFont();

    // set Comic Sans font
    comicToolStripMenuItem.Checked = true;
    displayLabel.Font = new Font("Comic Sans MS", 14, displayLabel.Font.Style);
}
```

Örnek Uygulama - Menü

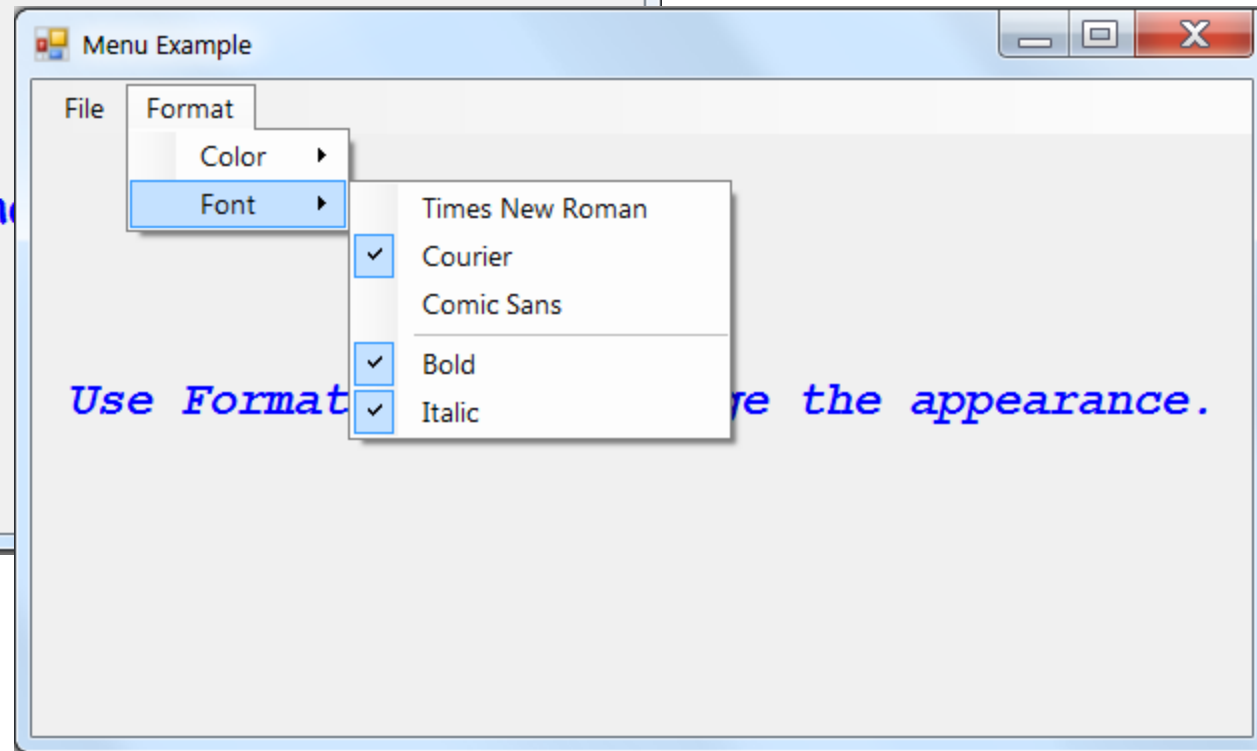
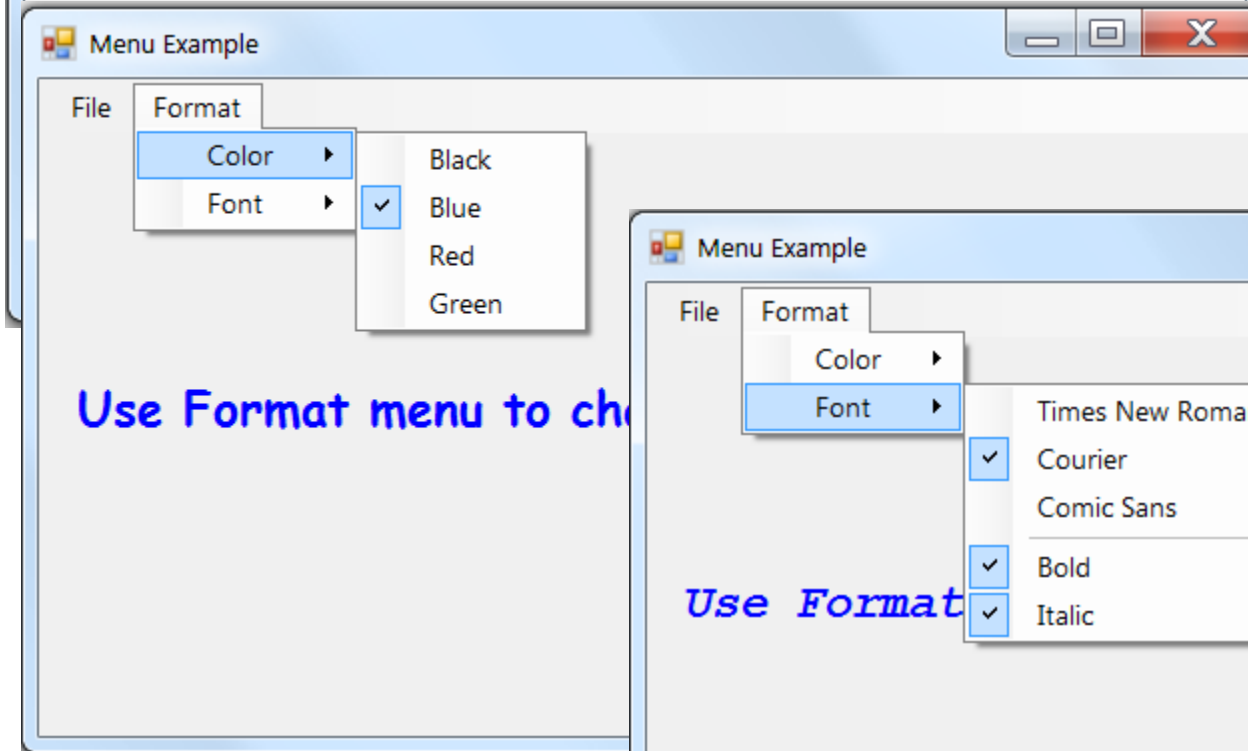
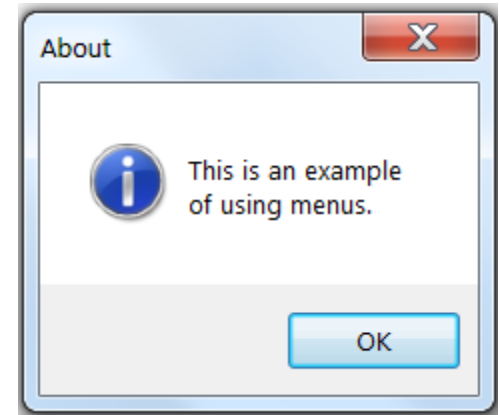
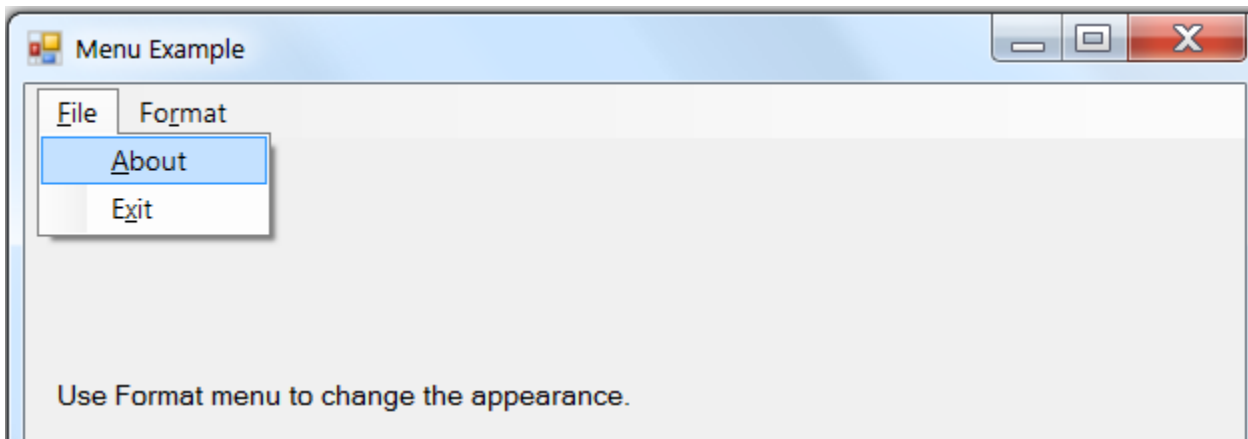
- **Bold** ve **Italic** submenüleri:

```
private void boldToolStripMenuItem_Click(object sender, EventArgs e)
{
    // toggle checkmark
    boldToolStripMenuItem.Checked = !boldToolStripMenuItem.Checked;

    // use Xor to toggle bold, keep all other styles
    displayLabel.Font = new Font(displayLabel.Font, displayLabel.Font.Style ^ FontStyle.Bold);
}

private void italicToolStripMenuItem_Click(object sender, EventArgs e)
{
    // toggle checkmark
    italicToolStripMenuItem.Checked = !italicToolStripMenuItem.Checked;

    // use Xor to toggle italic, keep all other styles
    displayLabel.Font = new Font(displayLabel.Font, displayLabel.Font.Style ^ FontStyle.Italic);
}
```

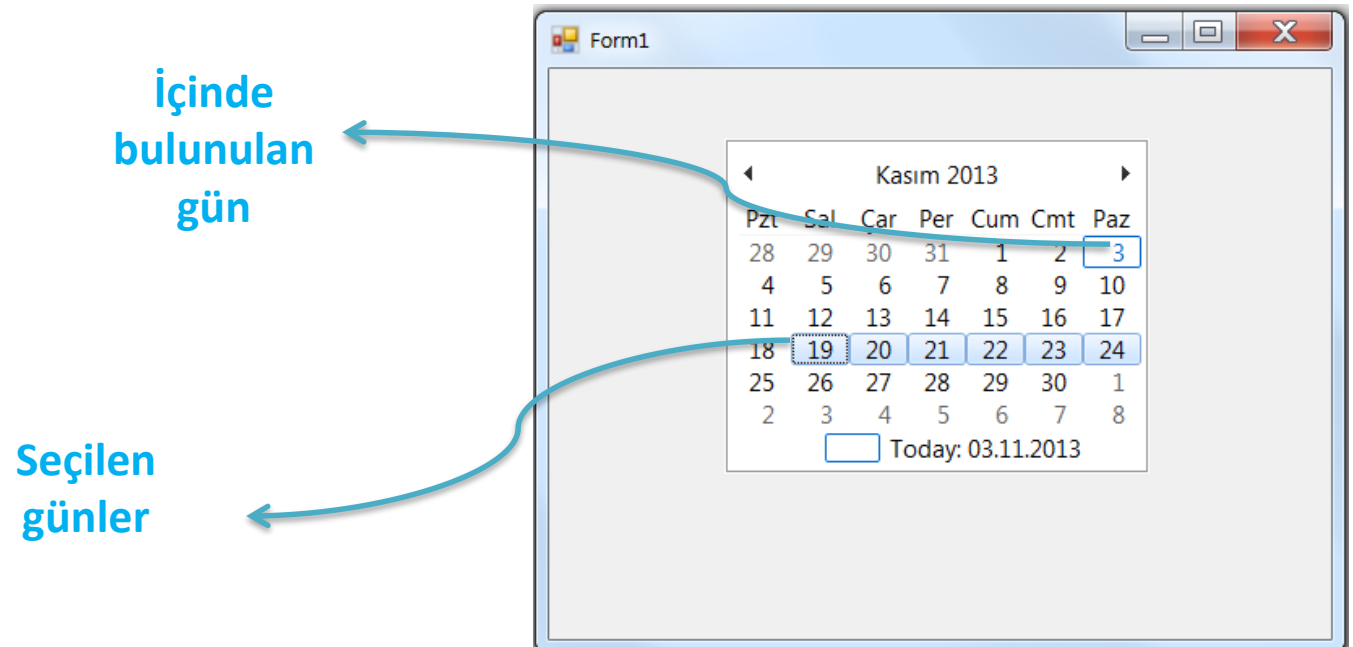


MonthCalendar & DateTimePicker

- Uygulamada gün ve zaman görüntülenmesi
- 2 kontrol:
 - **MonthCalendar**
 - **DateTimePicker**

MonthCalendar

- Aylık takvimi görüntüler.
- Kullanıcı **Shift** kullanarak takvimde birden fazla gün seçimi yapabilir.



MonthCalendar

MonthCalendar properties and an event

Description

MonthCalendar Properties

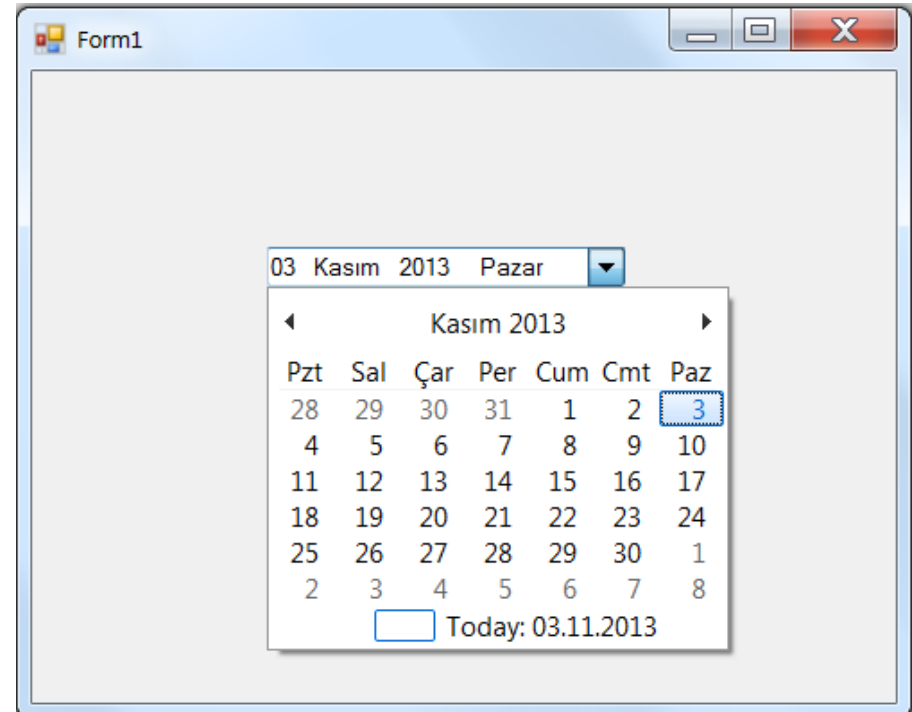
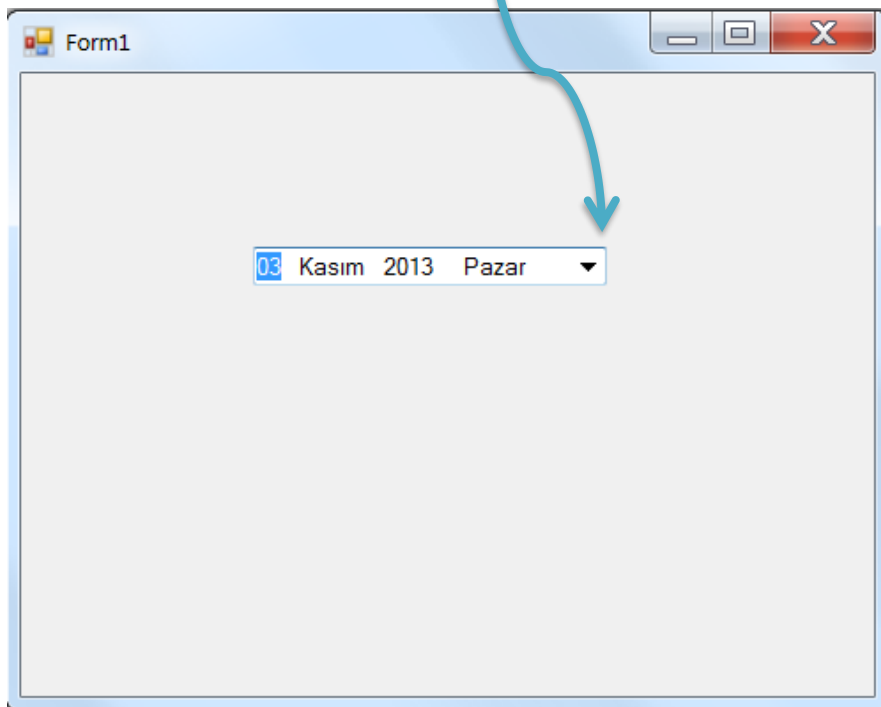
FirstDayOfWeek	Sets which day of the week is the first displayed for each week in the calendar.
MaxDate	The last date that can be selected.
MaxSelectionCount	The maximum number of dates that can be selected at once.
MinDate	The first date that can be selected.
MonthlyBoldedDates	An array of dates that will displayed in bold in the calendar.
SelectionEnd	The last of the dates selected by the user.
SelectionRange	The dates selected by the user.
SelectionStart	The first of the dates selected by the user.

Common MonthCalendar Event

DateChanged	Generated when a date is selected in the calendar.
-------------	--

DateTimePicker

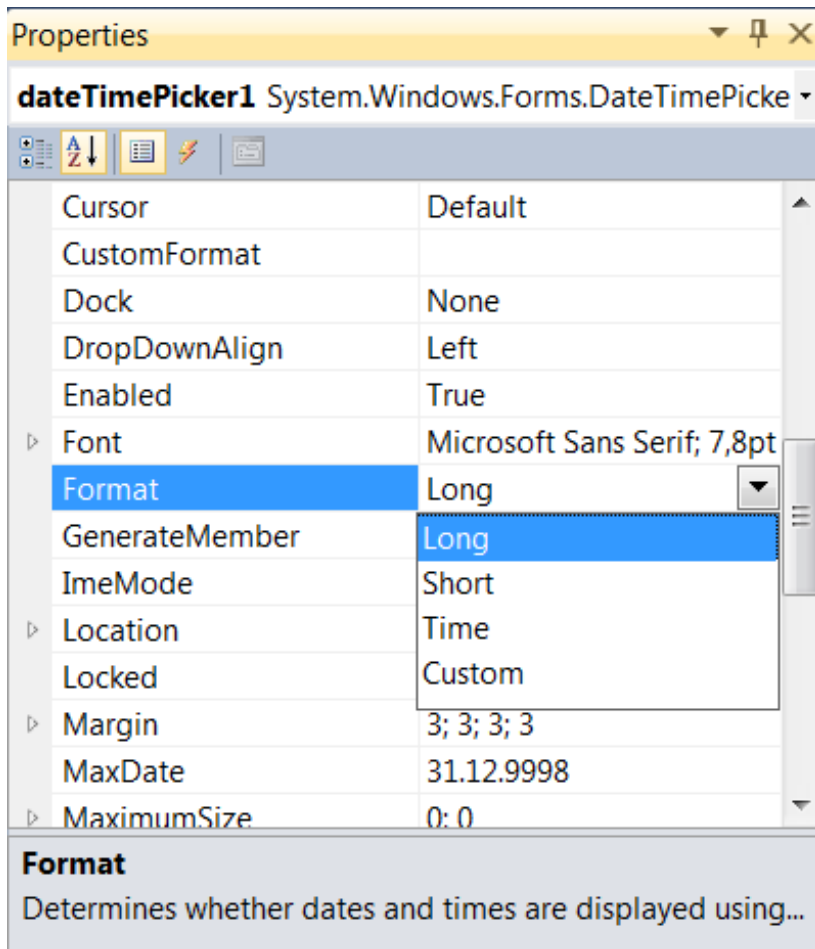
- **MonthCalendar**'a benzerdir.
- Takvimi ok seçilince gösterir.



DateTimePicker

- **DateTimePicker**'ın değeri **DateTime** nesnesinde tutulur.
- **DateTime**, gün ve zaman bilgisini tutar.
 - **Gün** bilgisi için:
 - **DateTime** nesnesinin **Date** özelliği kullanılır.
 - **Zaman** bilgisi için:
 - **DateTime** nesnesinin **Time** özelliği kullanılır.
- **MonthCalendar**'dan daha fazla uyarlanabilirdir (*customizable*).

DateTimePicker



- Long

03 Kasım 2013 Pazar

- Short

03.11.2013

- Time

15:37:40

- Custom

MMMM dd, yyyy - dddd

Kasım 03, 2013 - Pazar

DateTimePicker

DateTimePicker
properties and an event Description

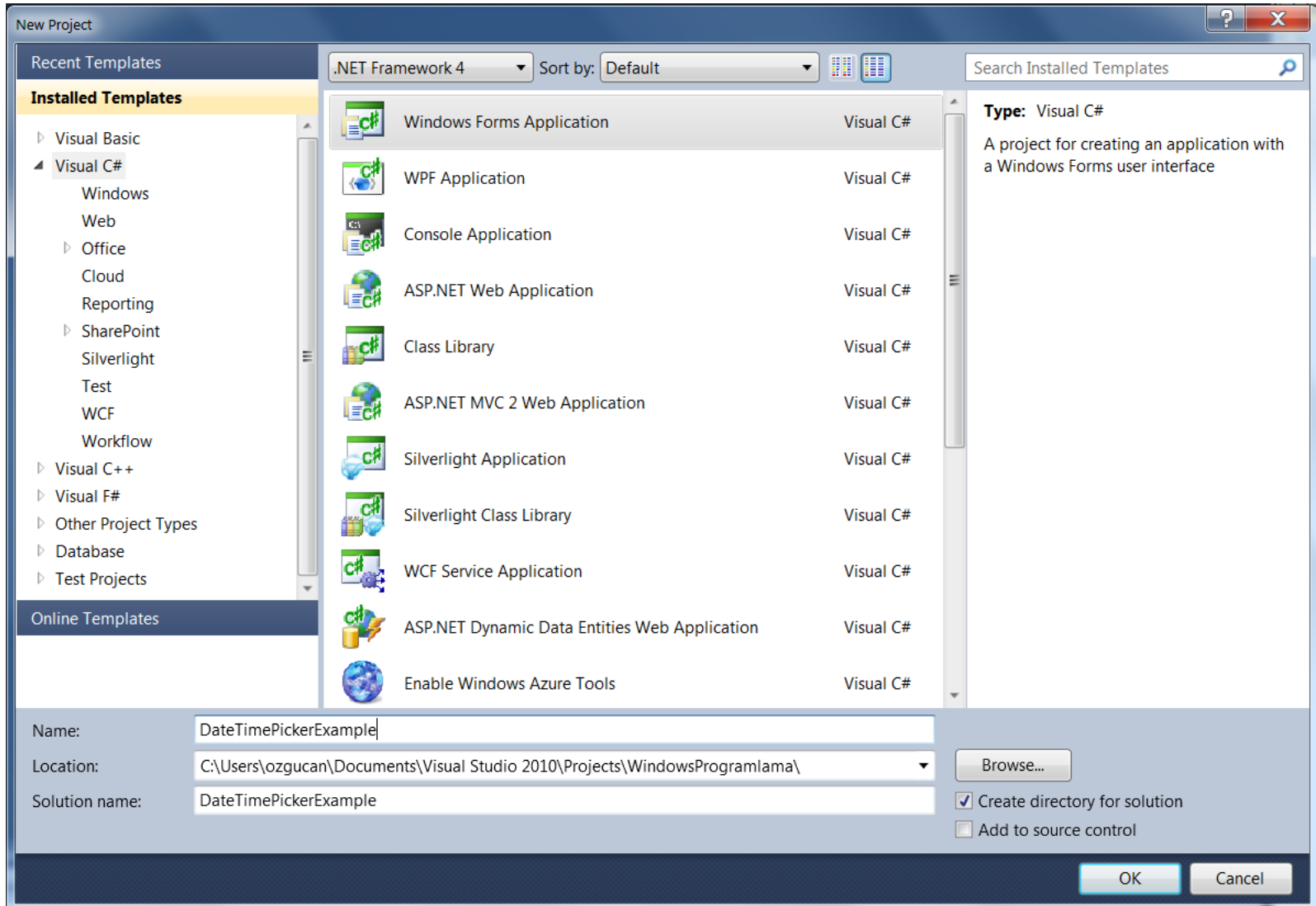
DateTimePicker Properties

CalendarForeColor	Sets the text color for the calendar.
CalendarMonth- Background	Sets the calendar's background color.
CustomFormat	Sets the custom format string for the user's options.
Format	Sets the format of the date and/or time used for the user's options.
MaxDate	The maximum date and time that can be selected.
MinDate	The minimum date and time that can be selected.
ShowCheckBox	Indicates if a CheckBox should be displayed to the left of the selected date and time.
ShowUpDown	Indicates whether the control displays up and down Buttons. Helpful when the DateTimePicker is used to select a time—the Buttons can be used to increase or decrease hour, minute and second.
Value	The data selected by the user.

Common DateTimePicker Event

ValueChanged	Generated when the Value property changes, including when the user selects a new date or time.
--------------	--

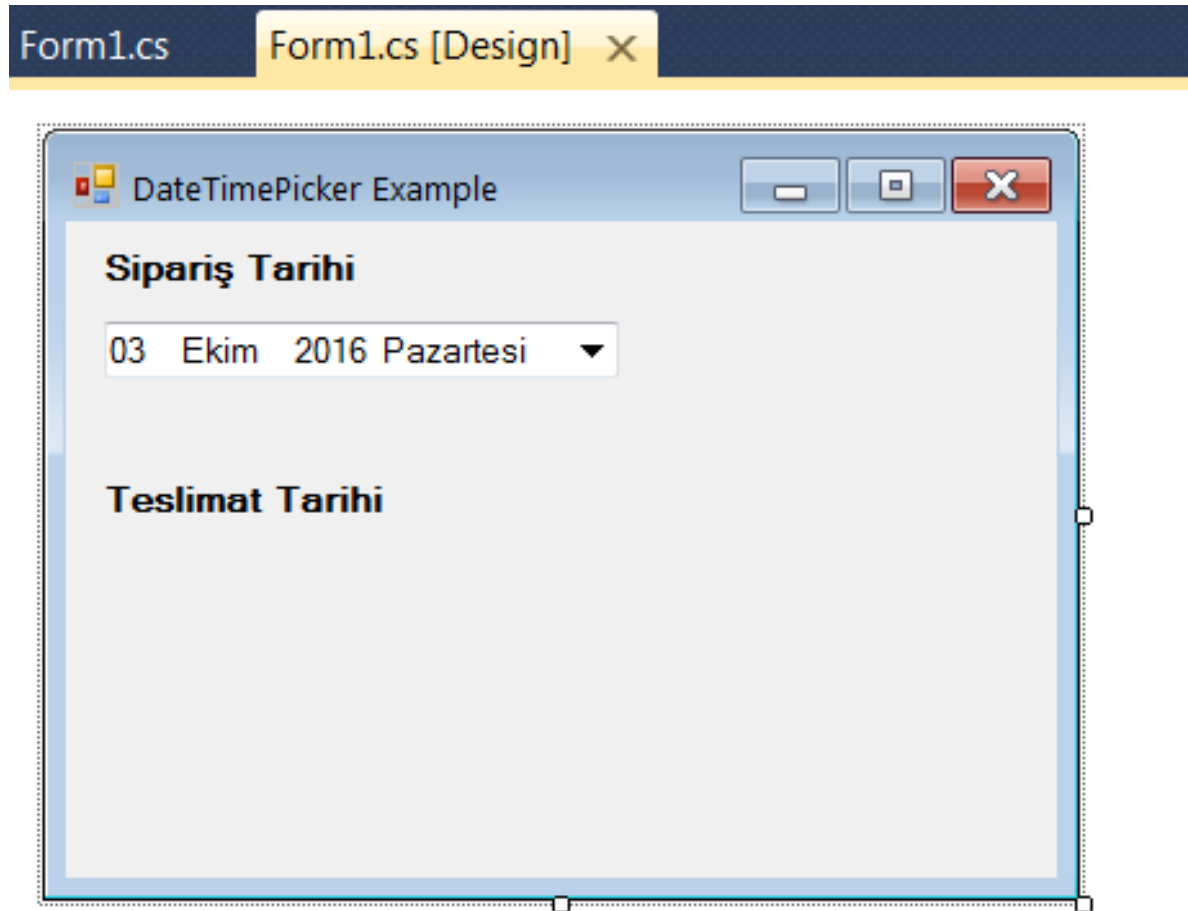
Örnek Uygulama - DateTimePicker



Örnek Uygulama - DateTimePicker

- 3 Label
 - Label 1
 - Text = Sipariş Tarihi
 - Name = orderLabel
 - Label 2
 - Text = Teslim Tarihi
 - Name = deliveryLabel
 - Label 3
 - Text = -
 - Name = outputLabel
- DateTimePicker
 - Name = dropDateTimePicker

Örnek Uygulama - DateTimePicker



The image shows a Windows application window titled "DateTimePicker Example". The window has a standard Windows title bar with minimize, maximize, and close buttons. Below the title bar, there are two tabs: "Form1.cs" and "Form1.cs [Design]". The "Form1.cs [Design]" tab is active, showing the design view of the form. The form contains two date pickers. The first date picker is labeled "Sipariş Tarihi" and shows the date "03 Ekim 2016 Pazartesi". The second date picker is labeled "Teslimat Tarihi" and is currently empty. The form is designed with a light gray background and a blue border.

Form1.cs Form1.cs [Design] ✕

DateTimePicker Example

Sipariş Tarihi

03 Ekim 2016 Pazartesi ▼

Teslimat Tarihi

Örnek Uygulama - DateTimePicker

```
private void dropDateTimePicker_ValueChanged(object sender, EventArgs e)
{
    DateTime dropOffDate = dropDateTimePicker.Value;

    // add extra time when items are dropped off at weekend
    if (dropOffDate.DayOfWeek == DayOfWeek.Friday ||
        dropOffDate.DayOfWeek == DayOfWeek.Saturday ||
        dropOffDate.DayOfWeek == DayOfWeek.Sunday)

        //estimate three days for delivery
        outputLabel.Text = dropOffDate.AddDays(3).ToLongDateString();
    else
        // otherwise estimate only two days for delivery
        outputLabel.Text = dropOffDate.AddDays(2).ToLongDateString();
}

private void Form1_Load(object sender, EventArgs e)
{
    // user cannot select days before today
    dropDateTimePicker.MinDate = DateTime.Today;

    // user can only select days of this year
    dropDateTimePicker.MaxDate = DateTime.Today.AddYears(1);
}
```

DateTimePicker Example

Sipariş Tarihi

03 Ekim 2016 Pazartesi ▼

Teslimat Tarihi

DateTimePicker Example

Sipariş Tarihi

11 Ekim 2016 Salı ▼

Teslimat Tarihi

13 Ekim 2016 Perşembe

DateTimePicker Example

Sipariş Tarihi

01 Kasım 2016 Salı ▼

◀ Kasım 2016 ▶

Pzt	Sal	Çar	Per	Cum	Cmt	Paz
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Today: 03.10.2016

DateTimePicker Example

Sipariş Tarihi

04 Kasım 2016 Cuma ▼

Teslimat Tarihi

07 Kasım 2016 Pazartesi