Self-Learning Module 4 (Week 4)
I. Topic: Visual Basic 2010 – Using checked DateTimePicker Control

II. Competency
        Understand other different controls to be used in a program.
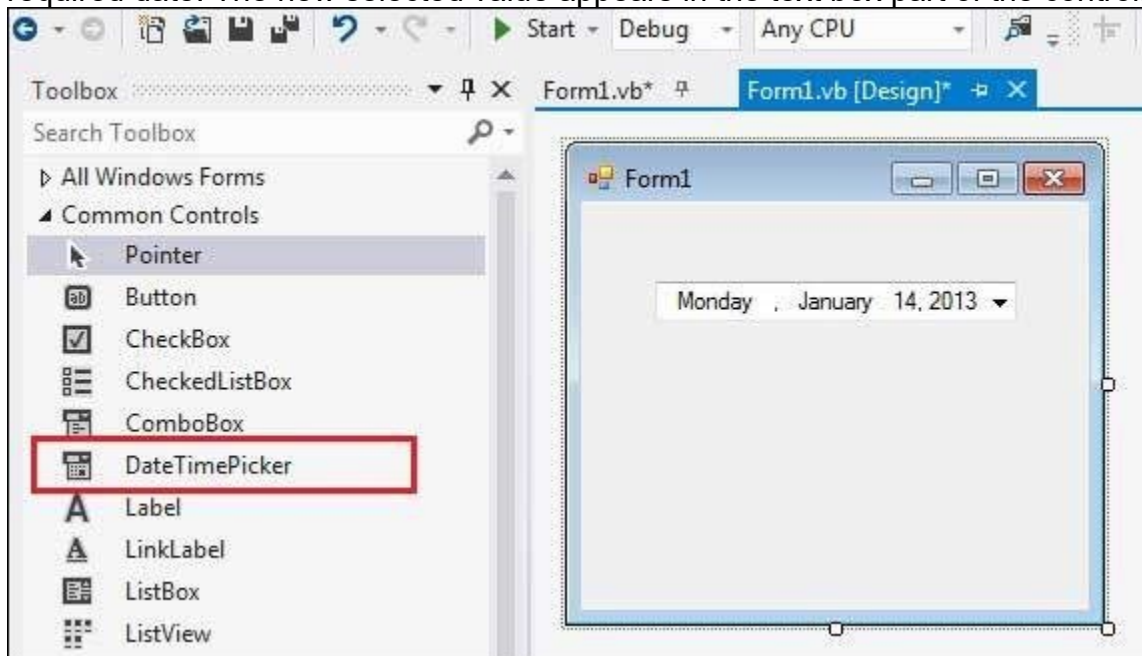**III. Objectives**
- Use of **DateTimePicker Control** in a program;
- Understand the event and properties of **DateTimePicker Control**;
- Incorporate **DateTimePicker Control** in basic program;

IV. Key Point
        The DateTimePicker control allows selecting a date and time by editing the displayed values in the control.
V. Core Content

The DateTimePicker control allows selecting a date and time by editing the displayed values in the control. If you click the arrow in the DateTimePicker 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.

The **MinDate** and the **MaxDate** properties allow you to put limits on the date range.
Properties of the DateTimePicker Control
The following are some of the commonly used properties of the DateTimePicker control –

Sr.No.	Property & Description
1	**BackColor** Gets or sets a value indicating the background color of the DateTimePicker control.

2	**BackgroundImage** Gets or sets the background image for the control.
3	**BackgroundImageLayout** Gets or sets the layout of the background image of the DateTimePicker control.
4	**CalendarFont** Gets or sets the font style applied to the calendar.
5	**CalendarForeColor** Gets or sets the foreground color of the calendar.
6	**CalendarMonthBackground** Gets or sets the background color of the calendar month.
7	**CalendarTitleBackColor** Gets or sets the background color of the calendar title.
8	**CalendarTitleForeColor** Gets or sets the foreground color of the calendar title.
9	**CalendarTrailingForeColor** Gets or sets the foreground color of the calendar trailing dates.
10	**Checked** Gets or sets a value indicating whether the Value property has been set with a valid date/time value and the displayed value is able to be updated.
11	**CustomFormat** Gets or sets the custom date/time format string.
12	**DropDownAlign** Gets or sets the alignment of the drop-down calendar on the DateTimePicker control.
13	**ForeColor** Gets or sets the foreground color of the DateTimePicker control.
14	**Format** Gets or sets the format of the date and time displayed in the control.
15	**MaxDate** Gets or sets the maximum date and time that can be selected in the control.
16	**MaximumDateTime** Gets the maximum date value allowed for the DateTimePicker control.
17	**MinDate**

		Gets or sets the minimum date and time that can be selected in the control.
18	**MinimumDateTime**	Gets the minimum date value allowed for the DateTimePicker control.
19	**PreferredHeight**	Gets the preferred height of the DateTimePicker control.
20	**RightToLeftLayout**	Gets or sets whether the contents of the DateTimePicker are laid out from right to left.
21	**ShowCheckBox**	Gets or sets a value indicating whether a check box is displayed to the left of the selected date.
22	**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.
23	**Text**	Gets or sets the text associated with this control.
24	**Value**	Gets or sets the date/time value assigned to the control.

Methods of the DateTimePicker Control
The following are some of the commonly used methods of the DateTimePicker control −

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

Events of the DateTimePicker Control
The following are some of the commonly used events of the DateTimePicker control −

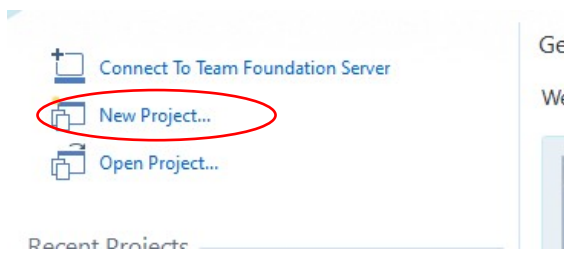| Sr.No.	Event & Description
1	**BackColorChanged** Occurs when the value of the BackColor property changes.
2	**BackgroundImageChanged** Occurs when the value of the BackgroundImage property changes.
3	**BackgroundImageLayoutChanged** Occurs when the value of the BackgroundImageLayout property changes.
4	**Click**

		Occurs when the control is clicked.
5	**CloseUp**	Occurs when the drop-down calendar is dismissed and disappears.
6	**DoubleClick**	Occurs when the control is double-clicked.
7	**DragDrop**	Occurs when a drag-and-drop operation is completed.
8	**ForeColorChanged**	Occurs when the value of the ForeColor property changes.
9	**FormatChanged**	Occurs when the Format property value has changed.
10	**MouseClick**	Occurs when the control is clicked with the mouse.
11	**MouseDoubleClick**	Occurs when the control is double-clicked with the mouse.
12	**PaddingChanged**	Occurs when the value of the Padding property changes.
13	**Paint**	Occurs when the control is redrawn.
14	**RightToLeftLayoutChanged**	Occurs when the RightToLeftLayout property changes.
15	**TextChanged**	Occurs when the value of the Text property changes.
16	**ValueChanged**	Occurs when the Value property changes.

Example

Step 1: Click Microsoft Visual Studio 2010 icon on your desktop.

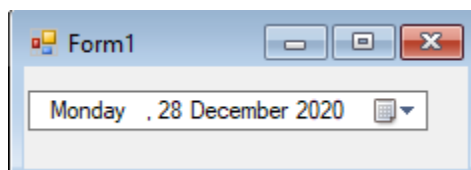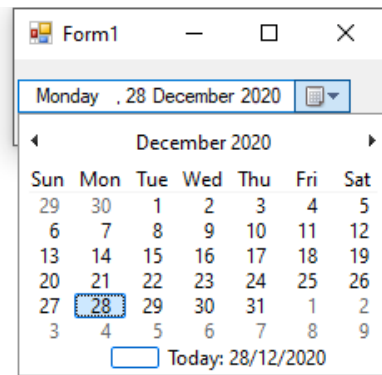Microsoft Visual Studio 2010

Step 2: Click New Project

Step 3: Type "datetime" in the name as your filename.

Step 4: On your toolbox look for DateTimePicker and insert it to your form. And it should like this

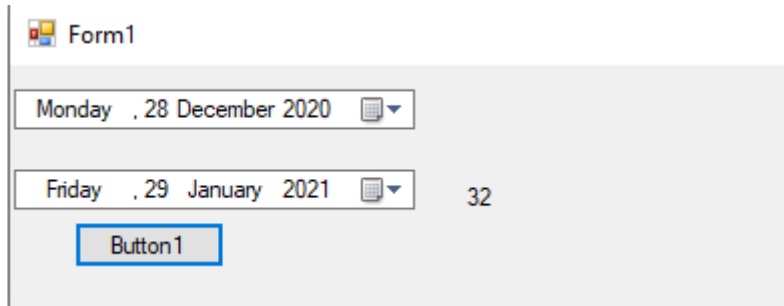Try to run the program and you should be able to use the DateTimePicker.

Step 5: Go back to the form and then add another DateTimePicker, a label and a button.

Step6: Double click the button then type the codes below;

Dim date1 As DateTime = DateTimePicker1.Value
Dim date2 As DateTime = DateTimePicker2.Value
 Dim result As TimeSpan = date2.Subtract(date1)
 Dim days As Integer = result.TotalDays
 Label1.Text = days

Run the program then select a different date on the second DateTimePicker, like the image below

The program will display the number of days from date 1 to date 2.

Explanation:

We declare 2 variables to hold the value of the DateTimePickers just to make it more shorter when it comes to our codes.

Dim date1 As DateTime = DateTimePicker1.Value
Dim date2 As DateTime = DateTimePicker2.Value
Dim result As TimeSpan = date2.Subtract(date1)
This line has the variable that will hold the difference between 2 dates.

Worksheet 1
I. Topic: Use *DateTimePicker* in a program
II. Objectives
  • Incorporate *DateTimePicker* to perform math problems.
  • Use *DateTimePicker* to initiate an event.
III. Activity 1
        Create a program that will display your age on a label using only with one *DateTimePicker.*