



اسم المادة : تطبيقات الحاسبة  
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المرحلة : الثانية  
السنة الدراسية : 2024-2023  
عنوان المحاضرة : Area Of a Rectangle

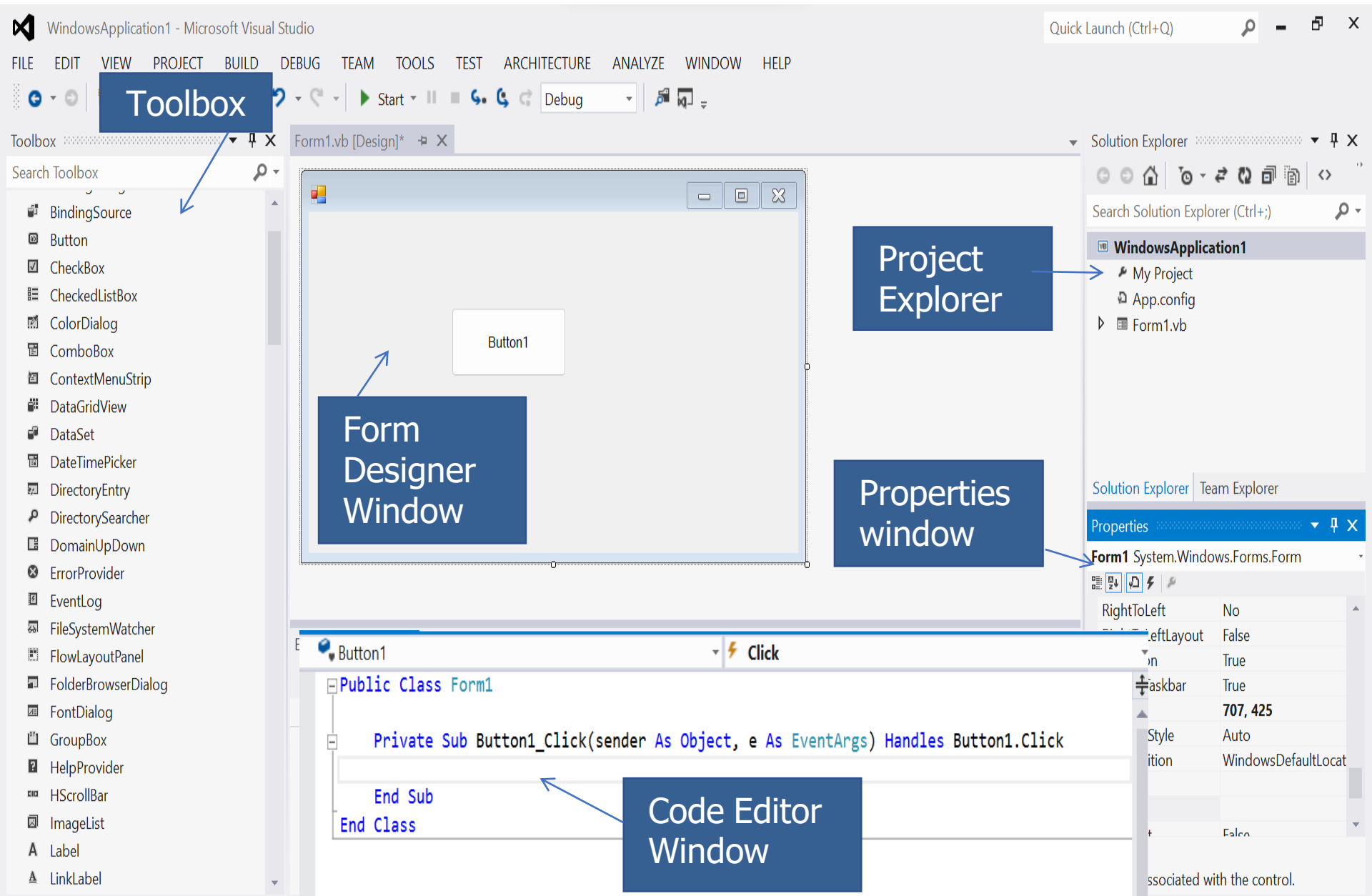


## Computer Application II

### Lab 04

### Area Of a Rectangle

2024/2023



**Toolbox**

Form1.vb [Design]\*

Form Designer Window

Button1

**Project Explorer**

Solution Explorer

Search Solution Explorer (Ctrl+;)

- WindowsApplication1
  - My Project
  - App.config
  - Form1.vb

Solution Explorer | Team Explorer

Properties

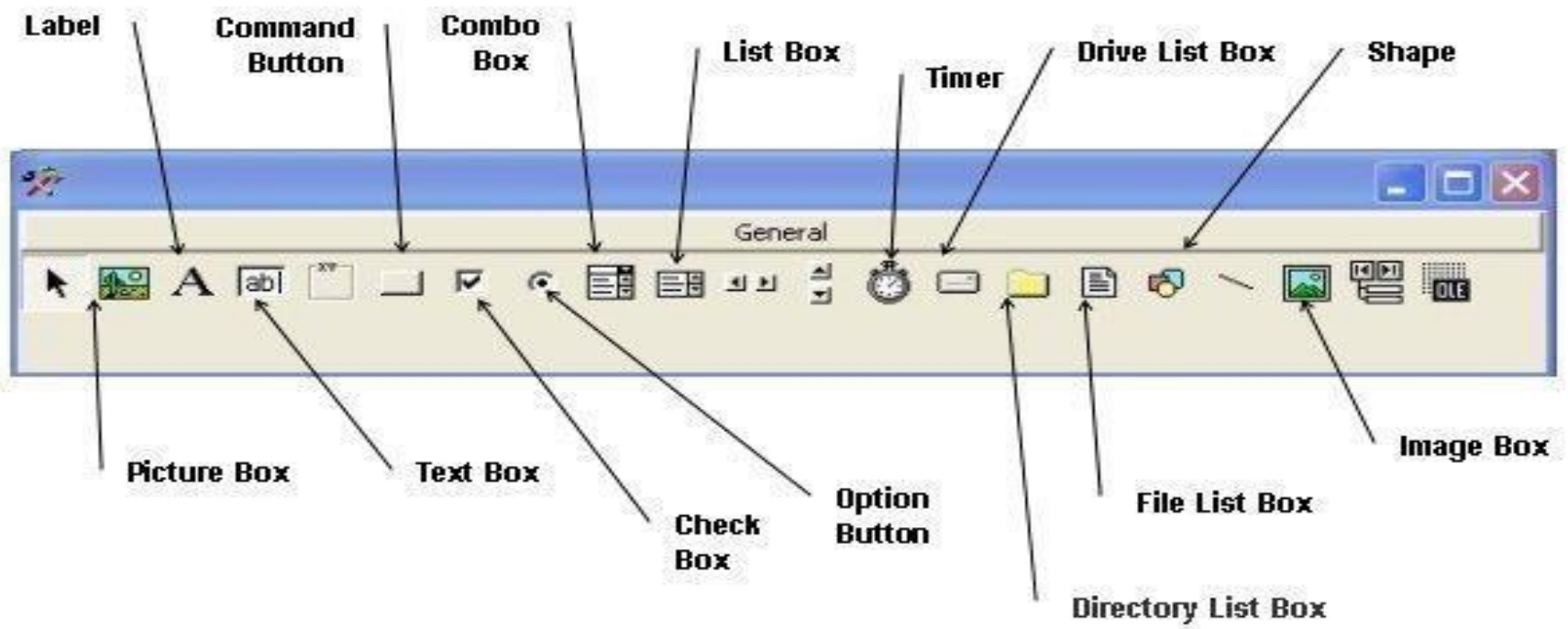
Form1 System.Windows.Forms.Form

RightToLeft	No
RightToLeftLayout	False
TabIndex	True
Taskbar	True
TopLevel	707, 425
Style	Auto
Location	WindowsDefaultLocat

**Properties window**

```
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    End Sub
End Class
```

Code Editor Window



- The most used tools (for now) are:
  1. Command button: used to perform an action when it is selected
  2. Label: used to display text on the form
  3. Textbox: TextBox control offers a natural way for users to enter or display a value in your program.<sup>3</sup>

Now start a new project. **Procedure:**

1. Name it Area of Rectangle
2. Drag three labels onto Form1 as shown in diagram 1 below
3. Rename first label to Width by changing the Text field in the Properties window (see diagram 1 below)
4. Name the second label Length
5. Name the third label Area

Toolbox

Search Toolbox

- FlowLayoutPanel
- FolderBrowserDialog
- FontDialog
- GroupBox
- HelpProvider
- HScrollBar
- ImageList
- Label**
- LinkLabel
- ListBox
- ListView
- MaskedTextBox
- MenuStrip
- MessageQueue
- MonthCalendar
- NotifyIcon
- NumericUpDown
- OpenFileDialog
- PageSetupDialog
- Panel
- PerformanceCounter
- PictureBox
- PrintDialog
- PrintDocument
- PrintPreviewControl

Form1

width

height

Area

Error List

0 Errors 0 Warnings 0 Messages

Description	File	Line	Colu...	Project
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Solution Explorer

Search Solution Explorer (Ctrl+;)

- WindowsApplication1
  - My Project
  - App.config
  - Form1.vb

Properties

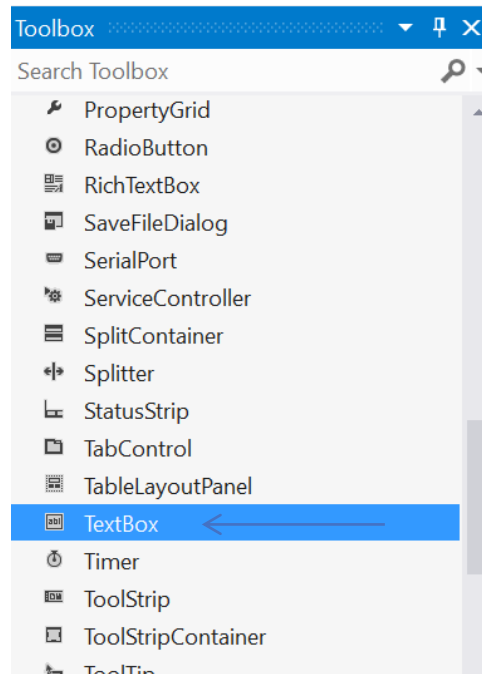
Label2 System.Windows.Forms.Label

Padding	0, 0, 0, 0
RightToLeft	No
Size	46, 20
TabIndex	1
Tag	
Text	<b>width</b>
TextAlign	TopLeft
UseCompatibleTextR	False
UseMnemonic	True
UseWaitCursor	False

**Text**

The text associated with the control.

6. Now drag three textboxes onto the form like shown in diagram 2A and 2B
7. Erase the Text field (in properties window) from Text1 to nothing
8. Erase the Text field from Text2 to nothing
9. Erase the Text field from Text3 to nothing



Toolbox

Search Toolbox

- Process
- ProgressBar
- PropertyGrid
- RadioButton
- RichTextBox
- SaveFileDialog
- SerialPort
- ServiceController
- SplitContainer
- Splitter
- StatusStrip
- TabControl
- TableLayoutPanel
- TextBox
- Timer
- ToolStrip
- ToolStripContainer
- ToolTip
- TrackBar
- TreeView
- VScrollBar
- WebBrowser
- Common Controls
  - Pointer
  - Button
  - CheckBox

Form1

width

height

Area

Error List

0 Errors | 0 Warnings | 0 Messages

Description	File	Line	Colu...	Project
-------------	------	------	---------	---------

Solution Explorer

Search Solution Explorer (Ctrl+;)

- WindowsApplication1
  - My Project
  - App.config
  - Form1.vb

Solution Explorer | Team Explorer

Properties

Form1 System.Windows.Forms.Form

ShowInTaskbar	True
Size	576, 400
SizeGripStyle	Auto
StartPosition	WindowsDefaultLocat
Tag	
Text	Form1
TopMost	False
TransparencyKey	<input type="checkbox"/>
UseWaitCursor	False
WindowState	Normal

**Text**

The text associated with the control.

10. Now drag two command buttons onto the form like shown in diagram 3
11. Change the Text field to Calculate Area on the first button
12. Change the Text field to Exit on the second button
13. Now double click the first command button1 in order to enter the following code in the subroutine

```
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        TextBox3.Text = TextBox1.Text * TextBox2.Text
    End Sub
End Class
```



Toolbox [Search Icon]

Search Toolbox [Search Icon]

- All Windows Forms
  - Pointer
  - BackgroundWorker
  - BindingNavigator
  - BindingSource
  - Button**
  - CheckBox
  - CheckedListBox
  - ColorDialog
  - ComboBox
  - ContextMenuStrip
  - DataGridView
  - DataSet
  - DateTimePicker
  - DirectoryEntry
  - DirectorySearcher
  - DomainUpDown
  - ErrorProvider
  - EventLog
  - FileSystemWatcher
  - FlowLayoutPanel
  - FolderBrowserDialog
  - FontDialog
  - GroupBox
  - HelpProvider
  - HScrollBar

Form1.vb [Design]\* [Close]

Form1

width

height

Area

Error List [Search Icon]

0 Errors | 0 Warnings | 0 Messages

Search Error List [Search Icon]

Description	File	Line	Colu...	Project
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Solution Explorer [Search Icon]

Search Solution Explorer (Ctrl+;) [Search Icon]

- WindowsApplication1
  - My Project
  - App.config
  - Form1.vb

Solution Explorer | Team Explorer

Properties [Search Icon]

**Button1** System.Windows.Forms.Button

RightToLeft	No
Size	153, 52
TabIndex	6
TabStop	True
Tag	
Text	<b>Calculate Area</b>
TextAlign	MiddleCenter
TextImageRelation	Overlay
UseCompatibleTextRi	False
UseMnemonic	True

**Text**  
The text associated with the control.

14. Now double click the second command button2  
and enter the following

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click  
    Close()  
End Sub  
End Class
```

15. Now execute the program by pressing F5

16. Enter the length and width and get the area of the  
rectangle