



**CENTRE FOR DIPLOMA STUDIES**  
**MULTIMEDIA CONCEPT**

**LABORATORY INSTRUCTION SHEET**

<b>Course Code</b>	<b>DAT 21103</b>
<b>Lab Practical Title</b>	<b>A Simple Visual Basic Application</b>
<b>Lab Practical</b>	<b>1</b>

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## Learning Outcome(s)

At the end of this practical session, you should be able to:

1. Use the Visual Studio IDE's standard menus, toolbars and main windows effectively in developing an application.

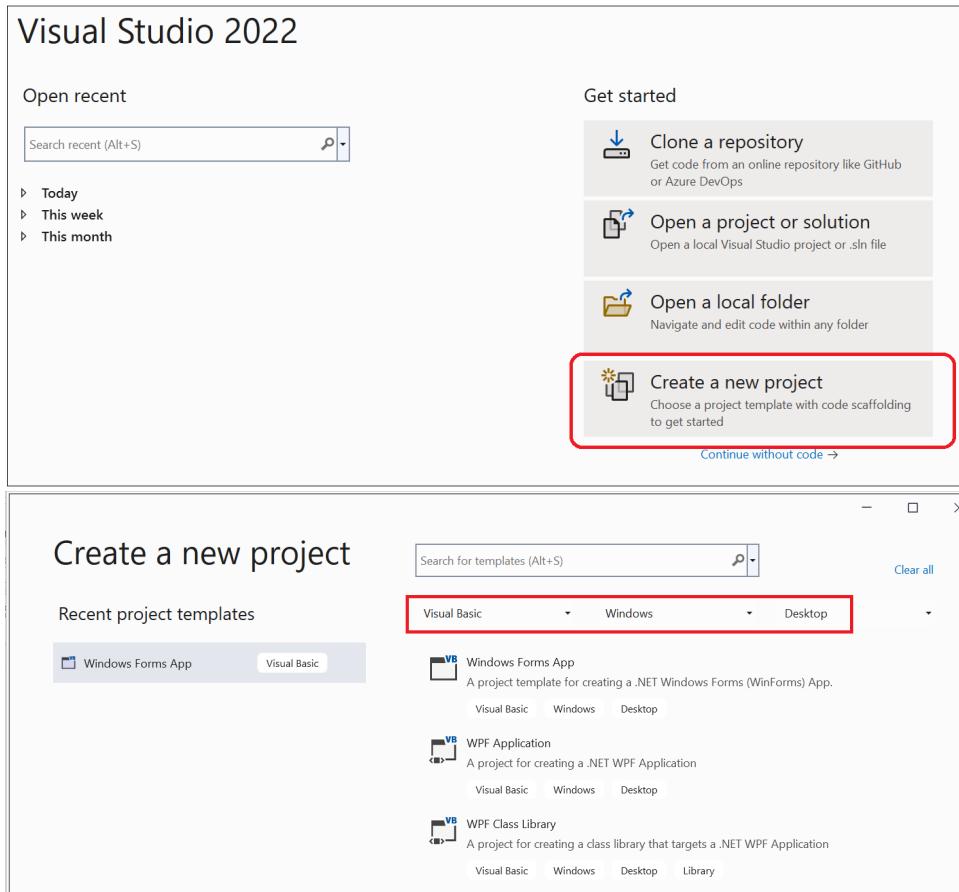
### Guided Task 1.1: Creating an application

#### Step 1: Starting the IDE

Open Visual Studio 2022 

#### Step 2: Creating a new project

Select Create a New Project and Choose Visual Basic, Windows and Desktop from the drop down list.



#### Step 3: Naming a project

Set Project Name to "Hello". Click NEXT and then click CREATE at the next prompted window.

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This should create a new windows application project, which includes a single startup Form and is contained within a “Hello” solution, as shown in Solution Explorer window.

#### Step 4: Saving a project

File>Save As. Specify where you want it to be stored (either your local drive or external drive).

#### Step 5: Setting a Form’s title (text on title bar of application)

Properties Window>Text property. Change default text "Form1" to "Hello". Notice that change reflected on Form.

#### Step 6: Creating user interface (UI)

Drag and drop below controls from Toolbox to Form (Figure 1.10):

- (i) A button (Put at right side. Change Text property to “Hello”).
- (ii) A label (Put at left side. Set Text property to “Click the Button!”)

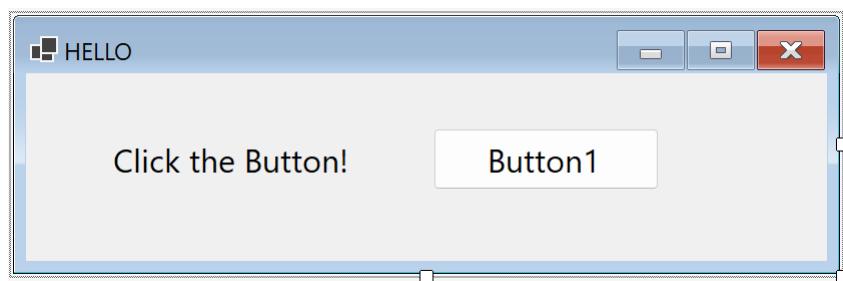


Figure 1.10: Simple Hello application

#### Step 7: Writing application code

Double click Button on Form. Write single statement as shown below:

**Label1.Text = "Visual Basic .Net is interesting!"**

```
Public Class Form1
    0 references
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Label1.Text = "Visual Basic .Net is interesting!"
    End Sub
End Class
```



#### Step 8: Save project

#### Step 9: Run application (Click Debug>Start Debugging or click )

Press Hello button, “Visual Basic .Net is interesting!” message appears at Label1.

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## Guided Task 1.2: Modifying an application

### Step 1: Reopening previous project

Method 1:

1. Select Guided Task 1.1 project directory.
2. Double click file with .sln extension.

Method 2:

1. Start VS.
2. File>Open project.
3. Double click or select then click Open .sln file in Guided Task 1.1 project directory.

### Step 2: Modifying UI

Add another Label and a TextBox as shown in Figure 1.11.

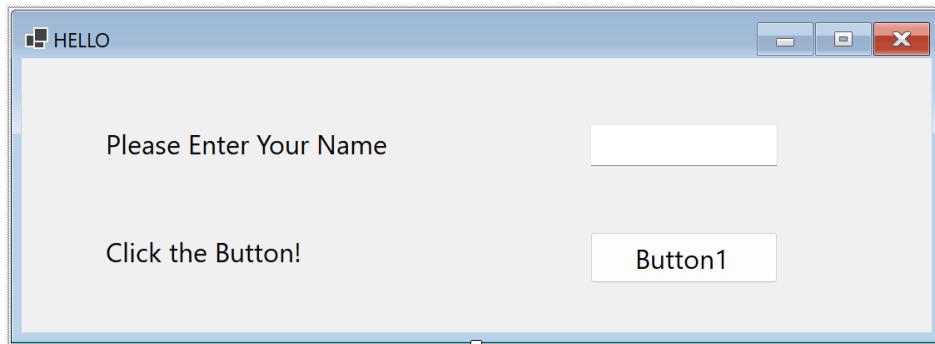


Figure 1.11: Modified Hello application

### Step 3: Modifying application code

Replace code in Button click event as shown below:

```
Public Class Form1
    0 references
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Label1.Text = "Hello " & TextBox1.Text
    End Sub
End Class
```

### Step 4: Save project.

Step 5: Run application. Enter your name in TextBox. Press Hello button. See message that appears at Label1.

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### Guided Task 1.3: Customizing colour of Form and control

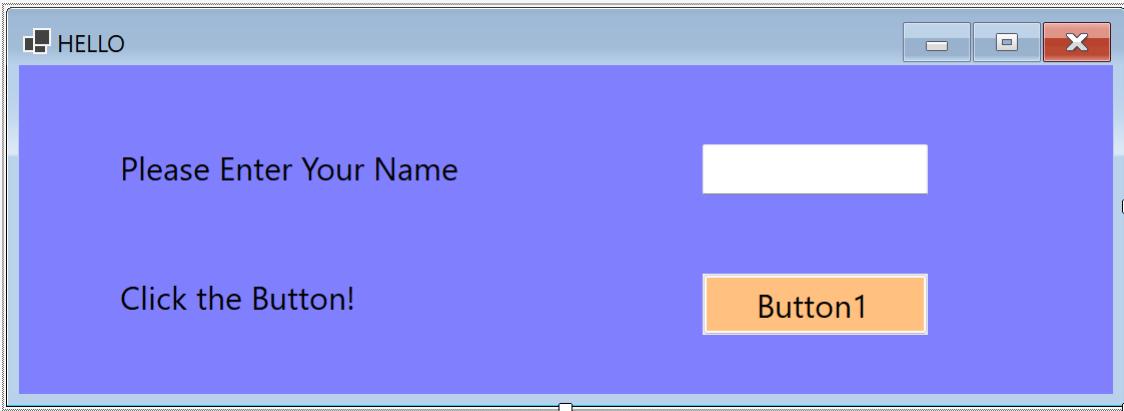


Figure 1.12: Colourised Hello application

#### Step 1: Changing background colour of Form and control

Go to Property Window. Change BackColor property of Form, Button and TextBox to different colours.

Step 3: Save project.

Step 4: Run application. See the difference.