Development Software 1B 2023

Learning Unit 5: GUI Applications

Lecture 9



Content

GUI Application



GUI Application

Things to know in GUI applications:

- Create a form in the VS IDE
- Use the Toolbox to add Button to a form
- Add Labels and Textboxes to the form
- Name forms and controls

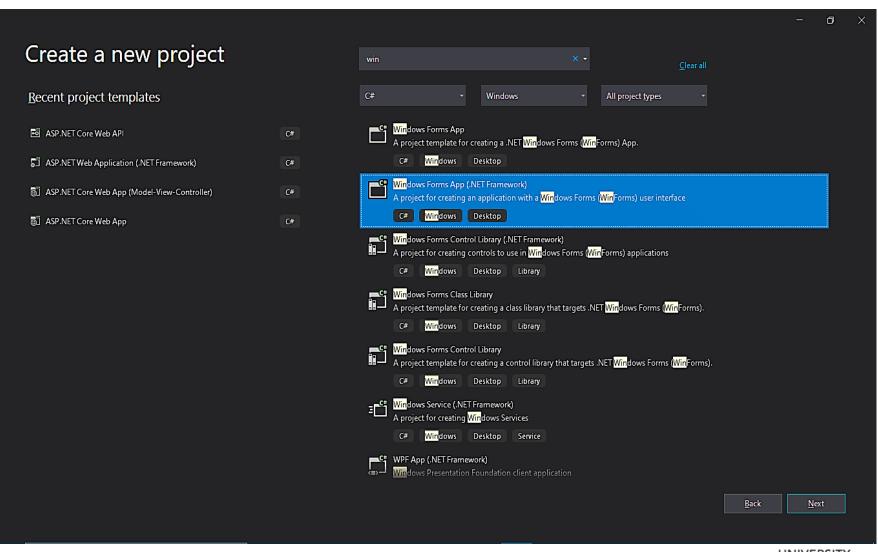


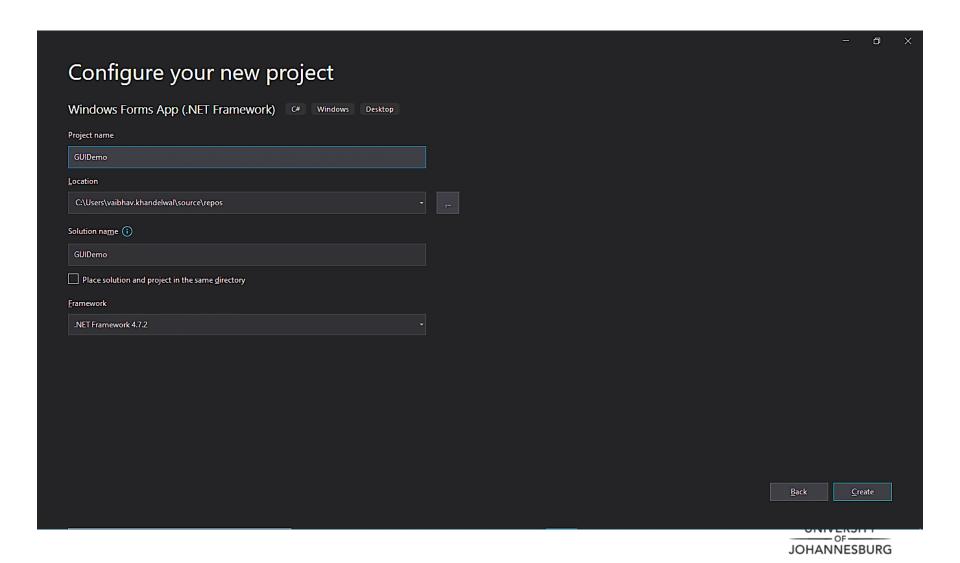
GUI Application

A graphical user interface (GUI) allows a user or customer to interact visually with a program.



- The interface is the environment the user sees
- Forms are rectangular GUI objects that provide an interface for collecting, displaying, and delivering information
- Forms always include controls
 - Devices such as labels, text boxes, ListBox, ComboBox, CheckedListBox, CheckBox, RadioButton and buttons
- To create a Form:
 - Select New Project after starting Visual Studio
 - Then choose Windows Forms App
 - After you click OK in the New Project window, you see the Integrated Development Environment (IDE) main window





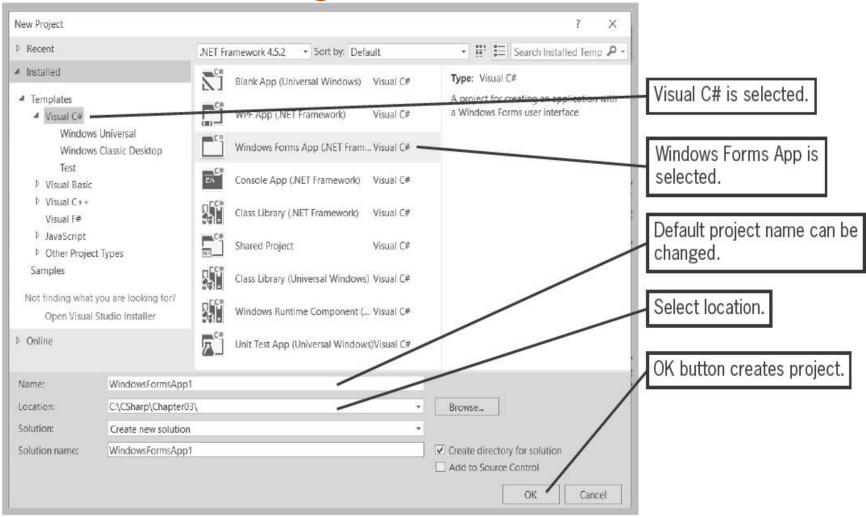
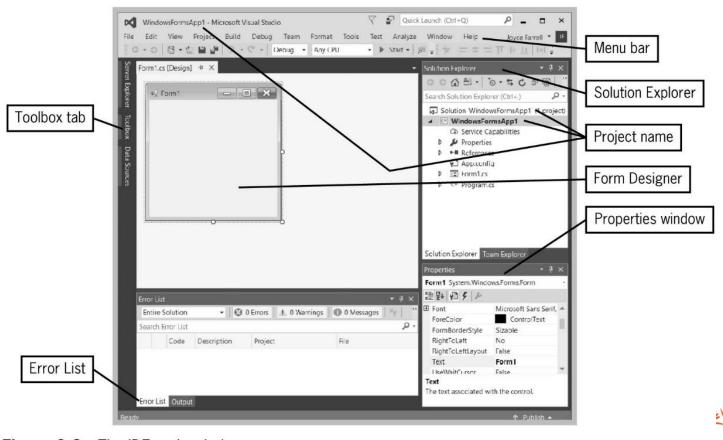


Figure 3-1 Choosing Windows Forms App in the New Project window



Creating a form in the IDE cont...



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Figure 3-2 The IDE main window

Creating a form in the IDE cont...

- In the Properties window, you can change the appearance, size, and color of a window
- The Form class contains around 100 properties
- When you sort Properties in alphabetical order in the Properties window
 - The Name entry is not in alphabetical order
 - It appears near the top of the list in parentheses



Creating a form in the IDE cont...

Class exercise:

Create a windows form application called **SumNo**. The form should add two numbers and display the results on a Label.



Example 1...

```
public frm_fact()
    InitializeComponent();
1 reference
private void label2_Click(object sender, EventArgs e)
1 reference
private void btn_click_Click(object sender, EventArgs e)
    int num=Convert.ToInt32(txt_enter.Text);
    int fact = 1;
    for (int i=num;i>0; i--)
                                                 ■ Fact
                                                                                                        - - X
        fact=fact*i;
                                                                       Get a fact number
    lbl_display.Text=fact.ToString();
                                                        Enter Number
                                                         Fact is:
                                                                                                     Click
```

THE END

