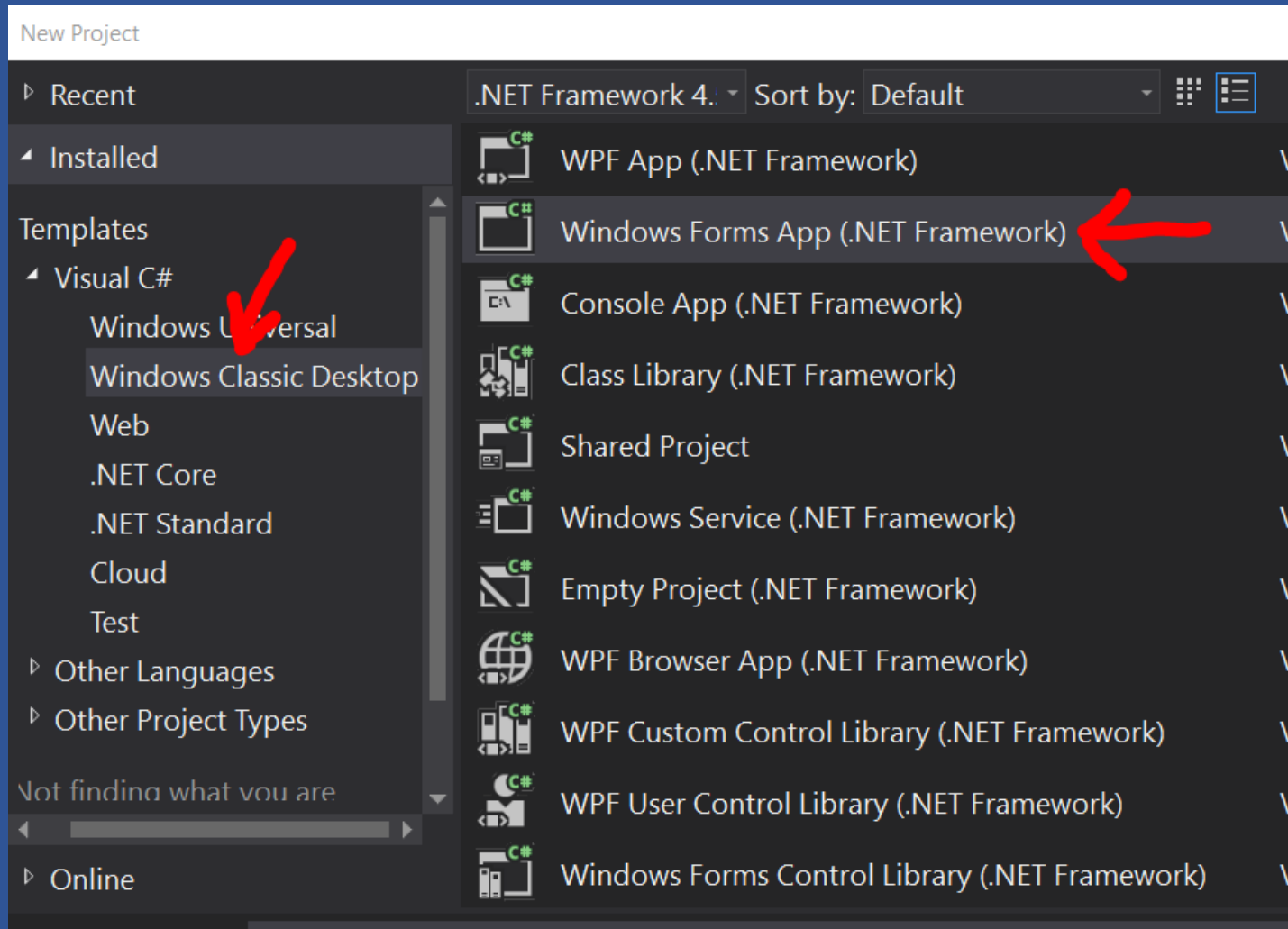# WinForm
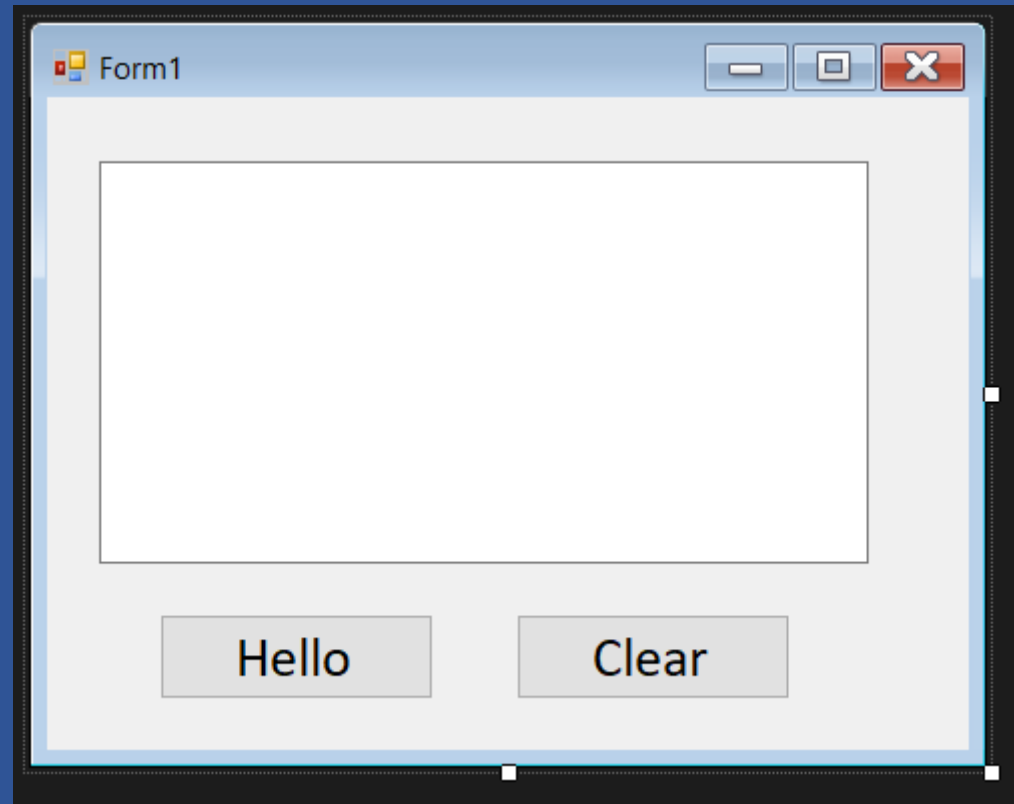
Create WinForm Project
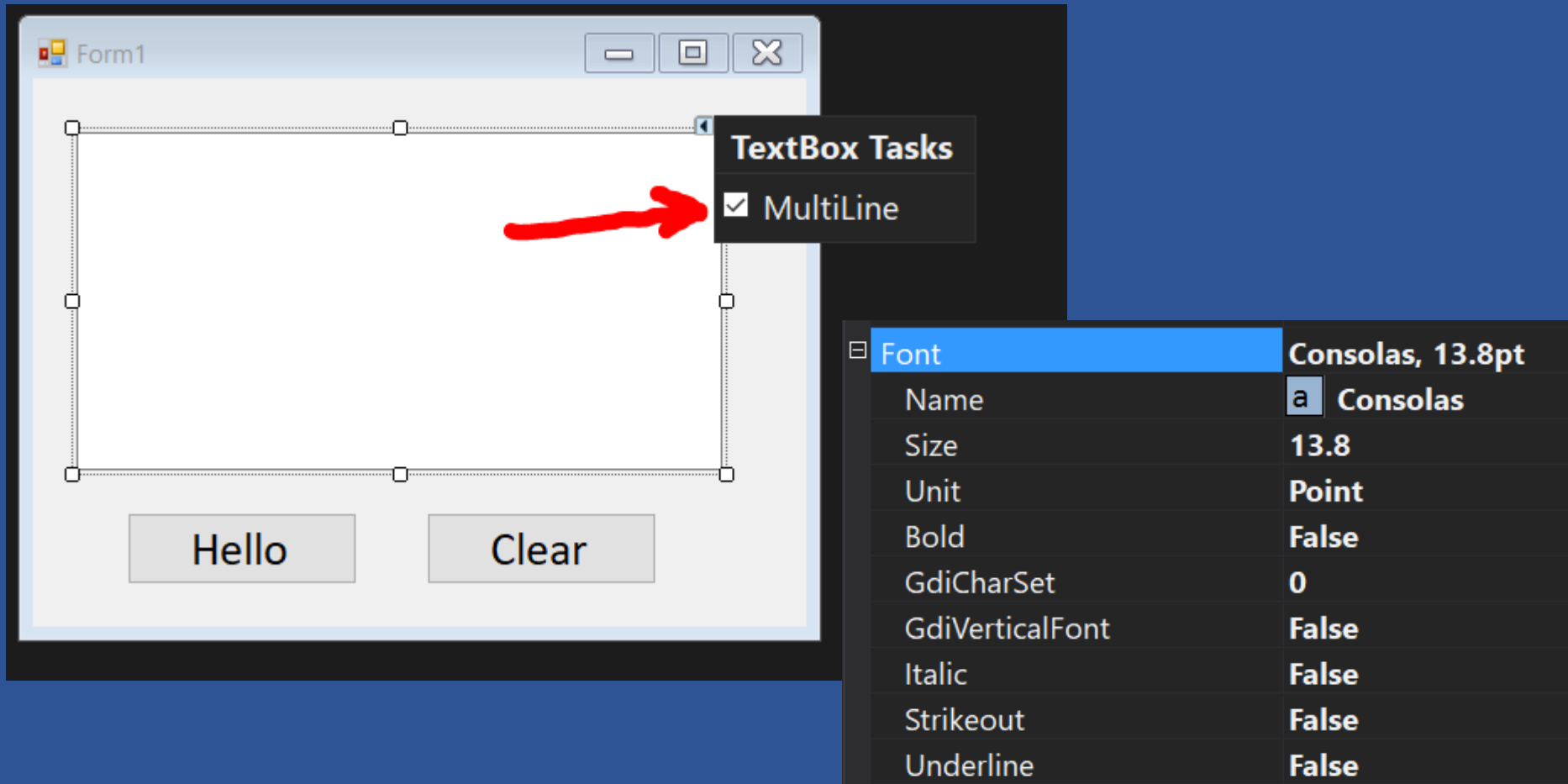
Add a text box, two buttons

Set textbox properties

Name = Main / MultiLine / Font =

Set button properties

buttn1 name = buttonHello / text = Hello

button2 name = buttonClear / text = Clear
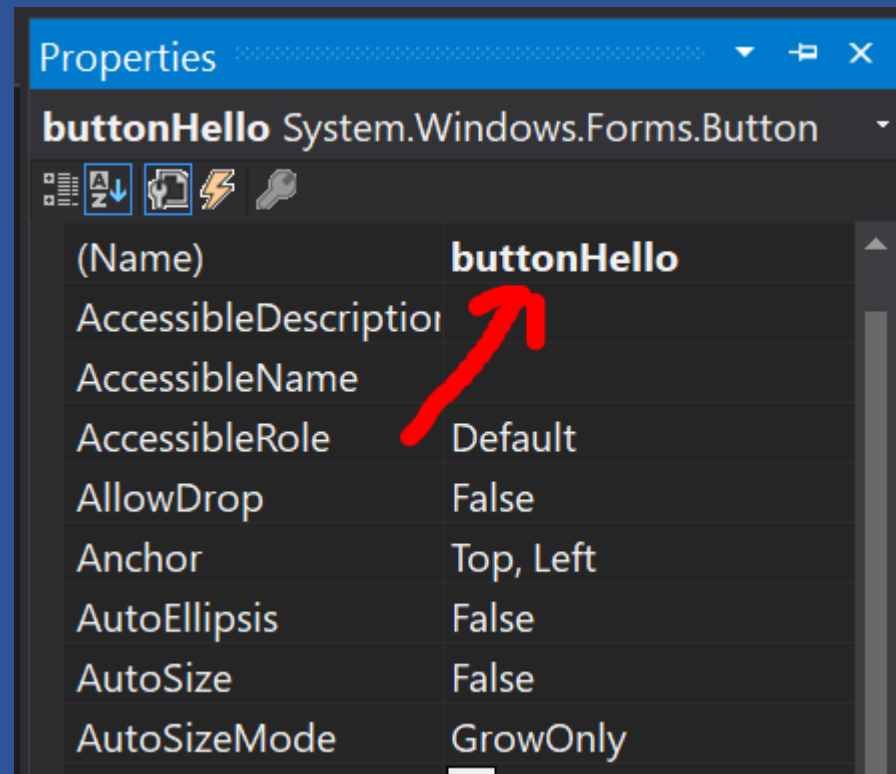
Code

```
                    3 references
13                  public partial class Form1 : Form
14                  {
                        1 reference
15                      public Form1()
16                      {
17                          InitializeComponent();
18                      }
19

                        1 reference
20                      private void buttonHello_Click(object sender, EventArgs e)
21                      {
22                          textBoxMain.Text = "Hello, World!";
23                      }
24

                        1 reference
25                      private void buttonClear_Click(object sender, EventArgs e)
26                      {
27                          textBoxMain.Clear();
28                      }
29                  }
30              }
```
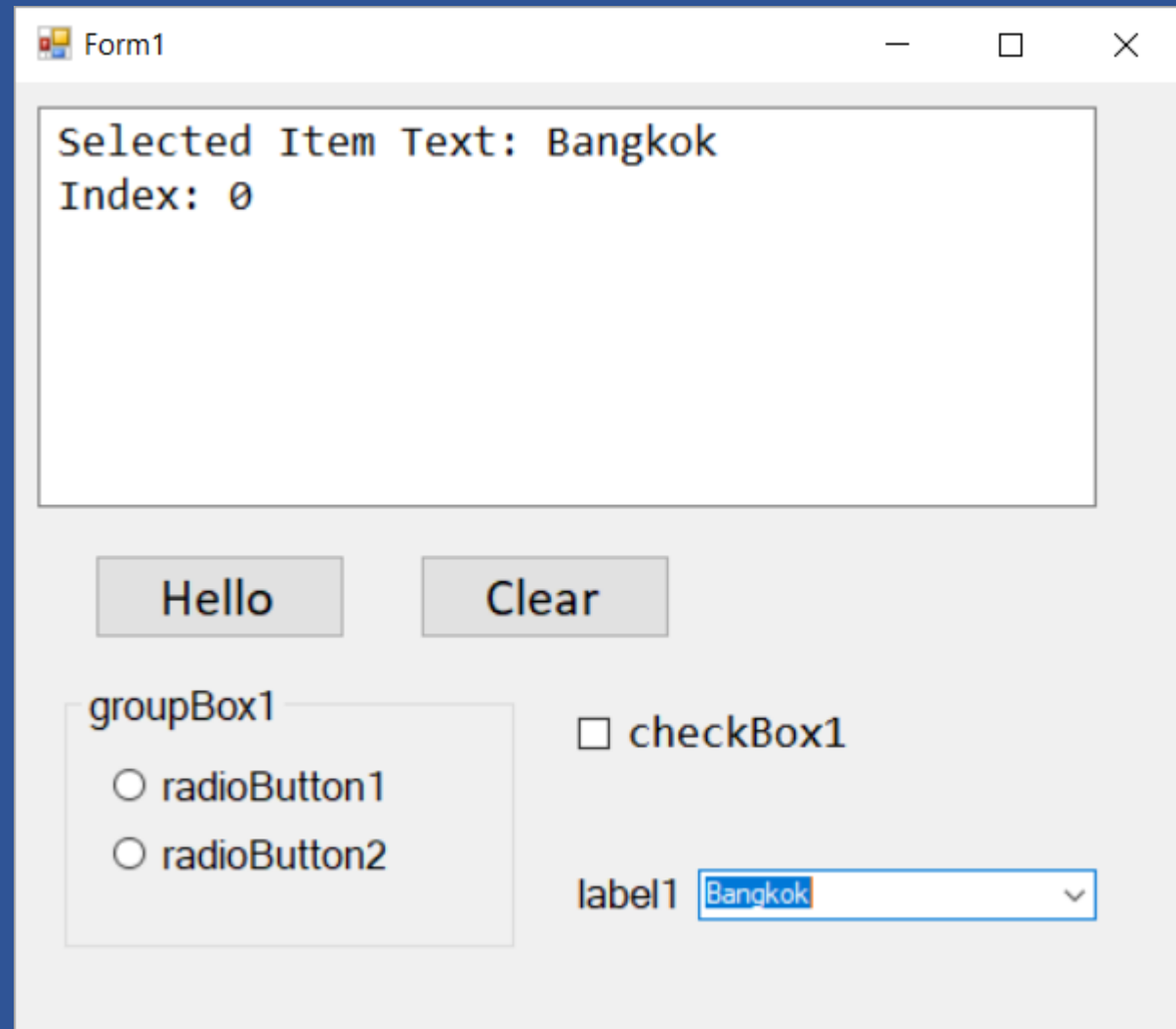
Add more Control

- Group Box
- Radio Button
- Check Box
- Label
- Combo Box

Form1

```
Selected Item Text: Bangkok
Index: 0
```

Hello   Clear

groupBox1
- ◯ radioButton1
- ◯ radioButton2

☐ checkBox1

label1 Bangkok

GreatFriends.Biz

Combo Box Code

```csharp
public Form1()
{
    InitializeComponent();
    comboBox1.Items.Add("Bangkok");
    comboBox1.Items.Add("Tokyo");
    comboBox1.Items.Add("New York");
}
1 reference
private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
{
    int selectedIndex = comboBox1.SelectedIndex;
    Object selectedItem = comboBox1.SelectedItem;
    string s = "Selected Item Text: " + selectedItem.ToString() + "\r\n" +
                "Index: " + selectedIndex.ToString();
    textBoxMain.Text = s;
}
1 reference
```

Other controls code

```csharp
private void checkBox1_CheckedChanged(object sender, EventArgs e)
{
    if (checkBox1.Checked)
        textBoxMain.Text = "checkBox1 Chekced";
    else
        textBoxMain.Text = "checkBox1 unChekced";
}
1 reference
private void radioButton1_CheckedChanged(object sender, EventArgs e)
{
    if(radioButton1.Checked) textBoxMain.Text = "radioButton1 Chekced";
}
1 reference
private void radioButton2_CheckedChanged(object sender, EventArgs e)
{
    if (radioButton2.Checked) textBoxMain.Text = "radioButton2 Chekced";
}
```

Cross-Thread UI
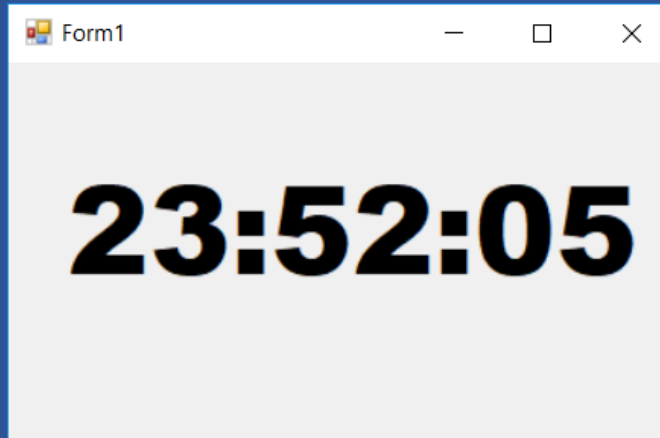

```csharp
Timer myTimer;
public Form1()
{
    InitializeComponent();
    myTimer = new Timer();
    myTimer.Interval = 500;
    myTimer.Tick += MyTimer_Tick;
    myTimer.Start();
}
```

Method Invoker

```csharp
private void MyTimer_Tick(object sender, EventArgs e)
{
    DateTime myNow = DateTime.Now;
    string myTime =
        myNow.Hour.ToString("00") + ":" +
        myNow.Minute.ToString("00") + ":" +
        myNow.Second.ToString("00");

    label1.Invoke(new MethodInvoker(delegate {
        label1.Text = myTime; }));
}
```

Exercise