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COMPUTER PROGRAMMING

DECISION INSTRUCTION – 2 (Exercise)

by
LIM KAR SING

FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES
UNIVERSITI MALAYSIA PAHANG

limks@ump.edu.my

Exercise 8 – If Block: Form

The image shows a screenshot of a Windows application window titled "Form1". The window contains three text boxes and one button. The first text box is labeled "First Number", the second is labeled "Second Number", and the third is labeled "txtResult". The button is labeled "Display Largest Value". Arrows point from the text labels "txtFirstNum", "txtSecondNum", and "txtResult" to their respective text boxes in the form.

Form1

First Number

Second Number

Display Largest Value

txtFirstNum

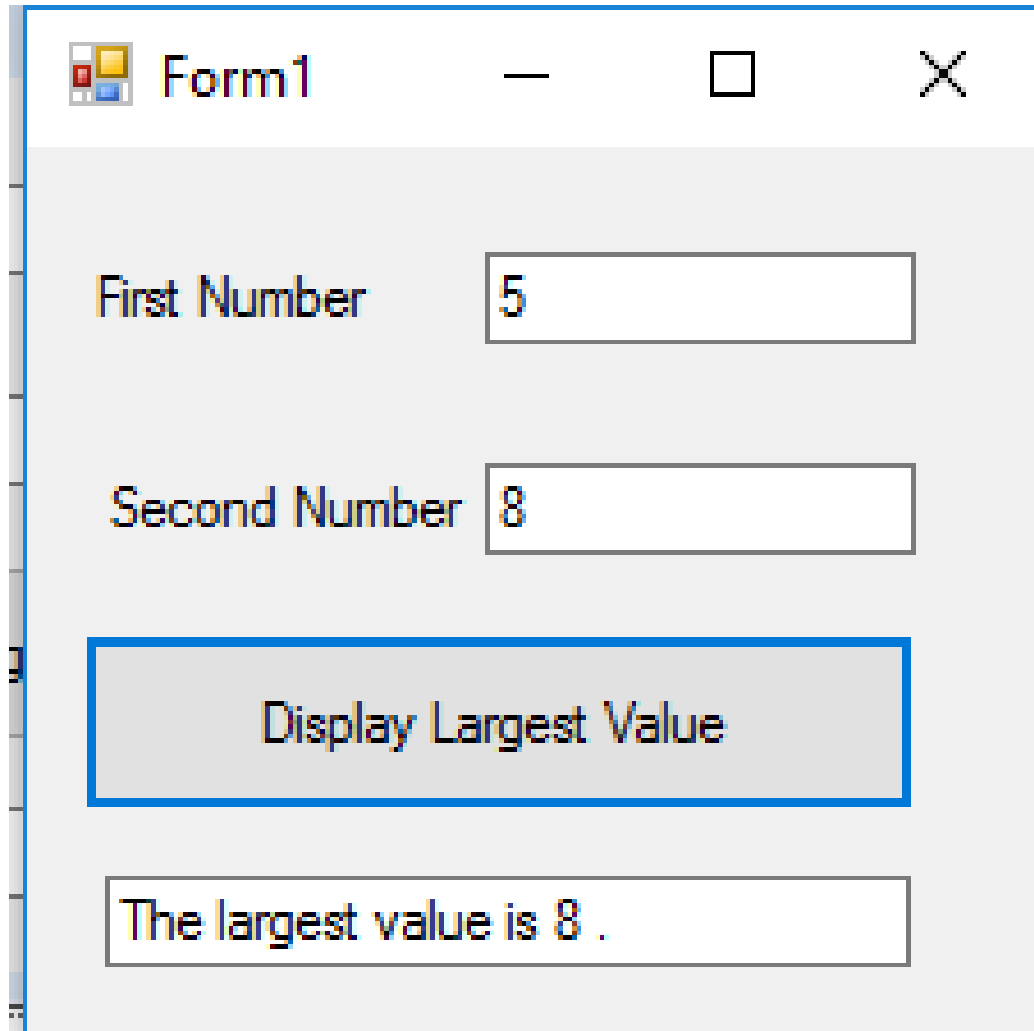
txtSecondNum

txtResult

Exercise 8 –If Block: Code

- Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
 Dim a, b, largest As Double
 a = TextBox1.Text
 b = TextBox2.Text
 If a > b Then
 largest = a
 Else
 largest = b
 End If
 TextBox3.Text = "The largest value is " & largest & " ."
• End Sub

Exercise 8 – If Block: Output



The screenshot shows a Windows application window titled "Form1". Inside the window, there are two text boxes for input. The first is labeled "First Number" and contains the value "5". The second is labeled "Second Number" and contains the value "8". Below these input fields is a button with the text "Display Largest Value". At the bottom of the form, there is a text box displaying the output: "The largest value is 8 .".

Exercise 9 - Nested If Blocks (Form)

The image shows a screenshot of a Windows application window titled "Form1". The window contains the following elements:

- A text box labeled "Cost" with an arrow pointing to it from the label "TextBox1" on the right.
- A text box labeled "Revenue" with an arrow pointing to it from the label "TextBox2" on the right.
- A button labeled "Show Financial Status".
- A yellow rectangular label labeled "Label3" with an arrow pointing to it from the label "Label13" on the right.

Exercise 9 - Nested If Blocks (Code)

```
Dim cost As Double, revenue As Double,  
profit As Double, loss As Double  
cost = TextBox1.Text  
revenue = TextBox2.Text  
If cost = revenue Then  
    Label3.Text = "Break even"  
Else  
    If cost < revenue Then  
        profit = revenue - cost  
        Label3.Text = "Profit is " & profit  
    Else  
        loss = cost - revenue  
        Label3.Text = "Loss is " & loss  
    End If  
End If
```

Exercise 9 - Nested If Blocks (Outputs)

Form1

Cost

Revenue

Show Financial Status

Profit is 785859.03

Form1

Cost

Revenue

Show Financial Status

Loss is 796981.03

Form1

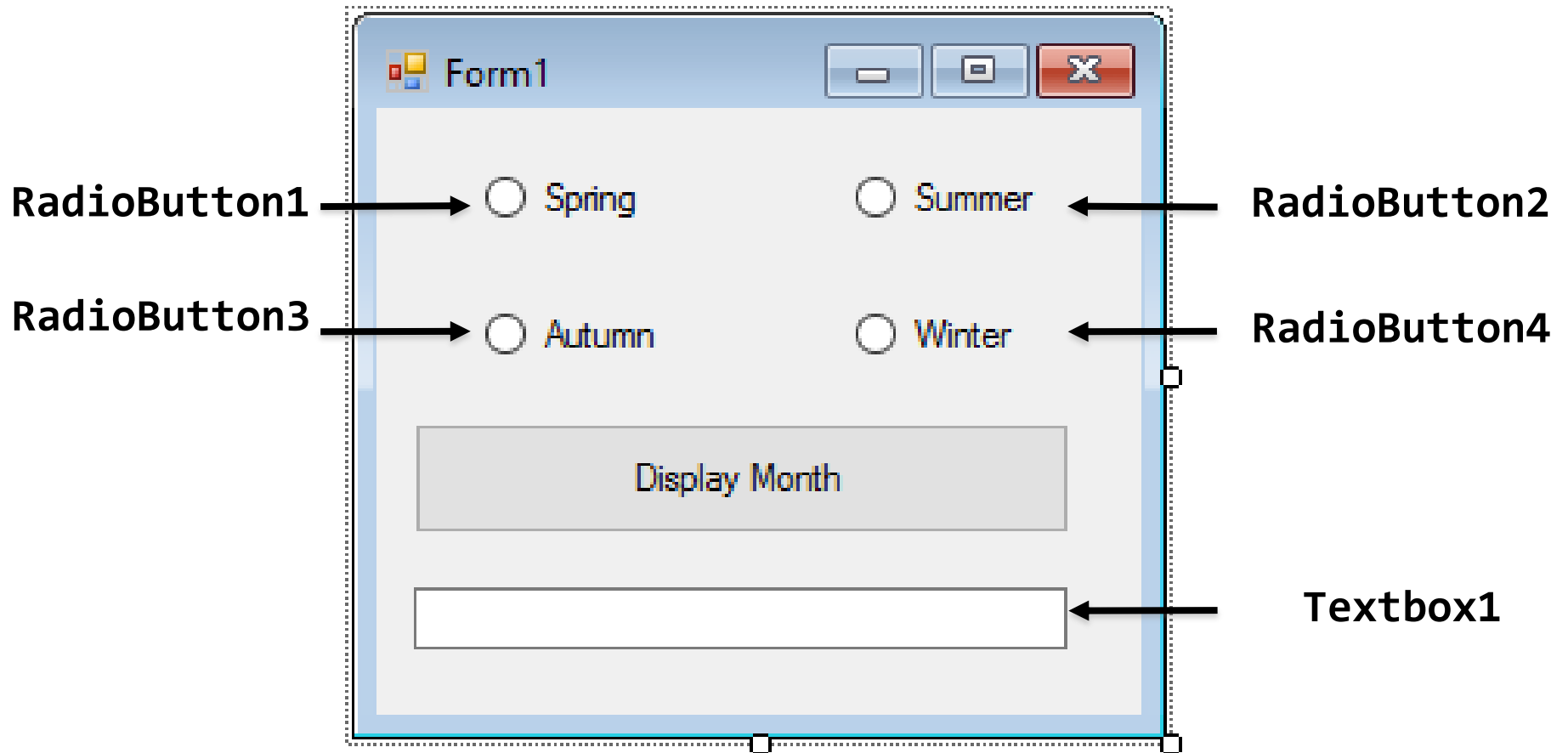
Cost

Revenue

Show Financial Status

Break even

Exercise 10 - Elself Clause (Form)



Exercise 10 - Elself Clause (Code)

```
If RadioButton1.Checked Then
    TextBox1.Text = "Spring is between Jan - March"
ElseIf RadioButton2.Checked Then
    TextBox1.Text = "Summer is between April - June"
ElseIf RadioButton3.Checked Then
    TextBox1.Text = "Autumn is between July - Sep"
Else
    TextBox1.Text = "Winter is between Oct - Dec"
End If
```

Exercise 10 - Elself Clause (Output)

Form1

Spring Summer

Autumn Winter

Display Month

Spring is between Jan - March

Font

Form1

Spring Summer

Autumn Winter

Display Month

Winter is between Oct - Dec