**Tutorial # 3**

**Question#1:** What is the output of the following programs?

1. 1 For row = 1 To 10

 2 For star = 1 To 10 - row

 3 outputTextBox.AppendText("\*")

 4 Next star

 5 outputTextBox.AppendText(vbCrLf)

 6 Next row



outputTextBox

What will be displayed here?

1. 1 Dim y As Integer

2 Dim x As Integer

3 Dim mysteryValue As Integer

4

5 x = 1

6 mysteryValue = 0

7

8 Do

9 y = x ^ 2

10 displayListBox.Items.Add(y)

11 mysteryValue += 1

12 x += 1

13 Loop While x <= 10

14

15 resultLabel.Text = mysteryValue



What will be displayed here?

**Question#2:** What is the output of the following programs?

Private Sub btnDisplay\_Click(...) Handles btnDisplay.Click

Dim firstName As String = ""

Dim lastName As String = ""

Dim salary, newSalary As Double salary = 0

textBox1.Text="First Name: " & firstName & " Last Name: " & lastName & " Salary =" & salary

InputData(firstName, lastName, salary)

textBox3.Text="First Name: " & firstName & " Last Name: " & lastName & " Salary =" & salary

newSalary = RaisedSalary(salary)

textBox5.Text=" salary =" & salary & ", New Salary =" & newSalary

End Sub

Sub InputData(ByRef firstName As String, ByVal lastName As String, ByRef salary As Double)

firstName = txtFirstName.Text

lastName = txtLastName.Text

salary = CDbl(txtCurrentSalary.Text)

textBox2.Text="First Name:" & firstName & "Last Name:" & lastName & "Salary =" & salary

End Sub

Function RaisedSalary(ByVal salary As Double) As Double

If salary <= 40000 Then salary= 1.05 \* salary Else

salary = salary + 2000 + 0.02 \* (salary - 40000) End If

textBox4.Text=" salary =" & salary

Return salary

End Function

**Input:**

30000

|  |  |
| --- | --- |
| **textBox1.Text** |   |
| **textBox2.Text** |   |
| **textBox3.Text** |   |
| **textBox4.Text** |   |
| **textBox5.Text** |   |

 **Question#3: Extract errors from the following codes & then obtain weather they are Syntax** **Error or Run time Error?**

 1 Private Sub CalculateArea(Byval Length As Double) As Double

2 Return Length ^ 2

3 End Sub

|  |  |  |  |
| --- | --- | --- | --- |
| **Line#** | **Error Description** | **Error Type (Syntax or Runtime)** | **Correction** |
|   |   |   |   |

1 Private Sub btnCalculate\_Click(...) Handles btnCalculate.Click

2

3 Dim weight As String = txtWeight.Text

4 Dim height As String = txtHeight.Text

5 Dim result As Double

6

7 result = BMI(weight, height)

8 End Sub

9

10 Function BMI(ByVal w As Double, ByVal h As Double) As Double

11 Dim r As String

12

14 r = "The result equals to " & ((703 \* w) / (h ^ 2))

15 Return r

16 End Function

|  |  |  |  |
| --- | --- | --- | --- |
| **Line#** | **Error Description** | **Error Type (Syntax or Runtime)** | **Correction** |
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