**Sheet # 4**

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

1. 1 For row = 1 To 10

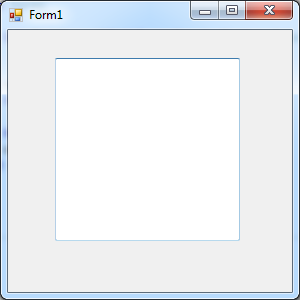
2 For star = 1 To 10 - row

3 outputTextBox.AppendText("\*")

4 Next star

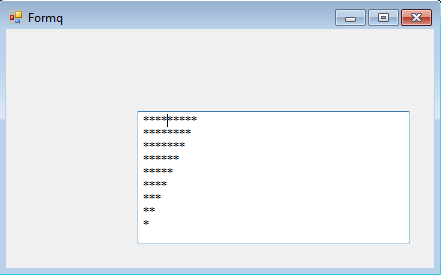
5 outputTextBox.AppendText(vbCrLf)

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)

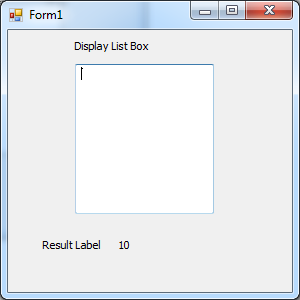
11 mysteryValue += 1

12 x += 1

13 Loop While x <= 10

14

15 resultLabel.Text = mysteryValue



What will be displayed here?

****

1. 1 Dim power As Integer = 5

2 Dim number As Integer = 10

3 Dim result As Integer = number

4

5 For i As Integer = 1 To (power - 1)

6 result \*= number

7 Next

Trace the values of the following variables throughout the loop:

|  |  |
| --- | --- |
| i | result |
| 1 | 100 |
| 2 | 1000 |
| 3 | 10000 |
| 4 | 100000 |

**Question#2: What is wrong with the following codes?**

1. 1 Dim y As Integer = 5

2 Dim z As Integer = 10

3 Do

4 z \*= y

5 Loop While y >= 1

6 y -= 1

7 resultLabel.Text = z

|  |  |  |  |
| --- | --- | --- | --- |
| **Line#** | **Error Description** | **Error Type (Syntax or Runtime)** | **Correction** |
| **4** | **Infinite loop** | **runtime** | **Add y-=1 after line 4** |

1. 1 Dim num As Integer = 5

2

3 For i As Integer = 100 To (num ^ 2) step 2

4 result \*= num

5 Next

6 i = i ^ num

|  |  |  |  |
| --- | --- | --- | --- |
| **Line#** | **Error Description** | **Error Type (Syntax or Runtime)** | **Correction** |
| **4** | **Result not declared** | **syntax** | **Dim result as double** |
| **3** | **Increment in the loop** | **runtime** | **Step -2** |
| **6** | **i not declared** | **syntax** | **Dim i as Integer** |