COLLEGE OF ENGINEERING & TECHNOLOGY

Department   : Computer Engineering

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Course   : Introduction To Programming

Course No.   : CC114

Sheet 7
Do…Loop While – Do…Loop Until

Q1. Choose the correct answer:

1. Set …………... property to True to enable a button.
   a) Disabled   b) Enabled   c) Focus   d) ButtonEnabled

2. The …………... statement executes at least once & continues executing until its loop-termination condition becomes False.
   a) Do While...Loop   b) Do...Loop Until   c) Do…Loop While   d) Do Until…Loop

3. The …………... statement executes at least once & continues executing until its loop-termination condition becomes True.
   a) Do...Loop Until   b) Do Until…Loop   c) Do While...Loop   d) Do…Loop While

4. Property …………... of…………... contains the number of items in a ListBox.
   a) Count, ListBox   b) ListCount, Items   c) ListCount, ListBox   d) Count, Items

5. Do...Loop Until repetition statement's loop-termination condition is evaluated …………... .
   a) only the first time the body executes   b) before the body executes
   c) after the body executes   d) None of the above

Q2. What's the result of the following code:

```
Dim y As Integer
Dim x As Integer
Dim mysteryValue As Integer

x = 1
mysteryValue = 0

Do
    y = x ^ 2

    displayListBox.Items.Add(y)
    mysteryValue += 1
    x += 1
Loop While x <= 10

resultLabel.Text = mysteryValue
```

Q3. Find the error(s) in the following code. This code should add 10 to the value in y and store it in z. It then should reduce the value of y by one and repeat until y is less than 10. Last, resultLabel should display the final value of z.
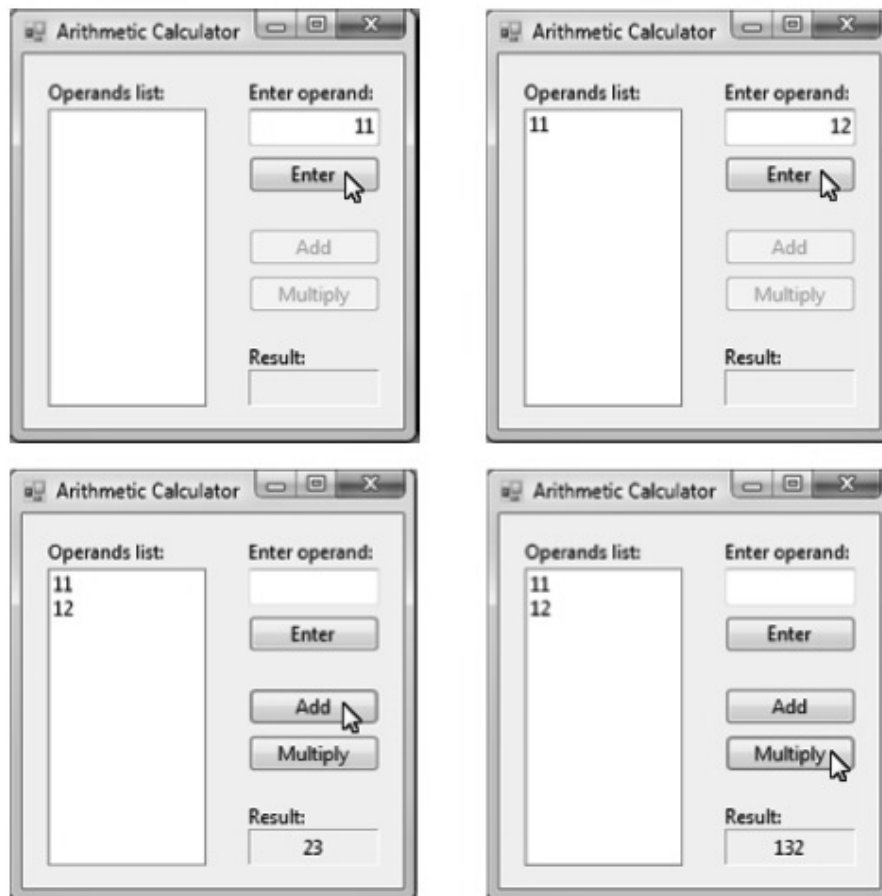
```
Dim y As Integer = 10
Dim z As Integer = 2

Do
    z = y + 10
Loop Until y < 10

y -= 1

resultLabel.Text = z
```
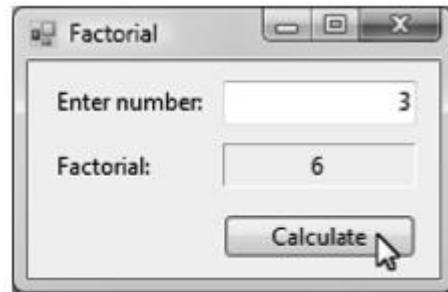
Q4. Write an application that allows the user to enter a series of numbers and manipulate them. The application should provide users with the option of adding or multiplying the numbers. Users should enter each number in a TextBox. After entering each number, the user clicks a Button, and the number is inserted on a ListBox.

Q5. Create the Factorial application which calculates the factorial of an integer input by the user. The factorial of an integer is the product of the integers from that number to one. For example, the factorial of 3 is 6 ($3 \times 2 \times 1$)

Q6. Develop an application that calculates a restaurant bill. The user should be able to enter the item ordered, the quantity of the item ordered and the price per item. When the user clicks the Add Item Button, your application should display the number ordered, the item ordered and the price per unit in three ListBoxes, as shown in Figure. When the user clicks the Total Bill Button, the application should calculate the total cost. For each entry in the ListBox, multiply the cost of each item by the number of items ordered.