COLLEGE OF ENGINEERING & TECHNOLOGY

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Course : Introduction To Programming
Course No. : CC114

Sheet 6
Do While…Loop – Do Until…Loop

Q1. Choose the correct answer:

1. The …….. statement executes until its loop-termination condition becomes True.
   a) Do While...Loop b) Do Until...Loop c) Do d) Loop

2. The …….. statement executes until its loop-termination condition becomes False.
   a) Do While...Loop b) Do Until...Loop c) Do d) Do While

3. A(n) …….. loop occurs when a condition in a Do While...Loop never becomes False.
   a) infinite b) nested c) undefined d) indefinite

4. A …… is a variable that helps control the number of times that a set of statements executes.
   a) repeater b) loop c) counter d) repetition control statement

5. The …….. control allows users to add and view items in a list.
   a) ListItems b) ListBox c) SelectBox d) ViewBox

6. Items's method …….. deletes all the values in a ListBox.
   a) Remove b) Clear c) Delete d) Del

7. Items's method …….. adds an item to a ListBox.
   a) Include b) Add c) Append d) None of the above

8. Function …….. calculates monthly payments on a loan based on a fixed interest rate.
   a) MonPmt b) Payment c) MonthlyPayment d) Pmt

9. When Do While Loop is exectuted, it first checks the truth value of the ……..
   a) Pass b) Condition c) Loop d) Statement

10. Which statement is True in regard to the following code ?

```
intCount = 0
Do While intCount < 10
        MsgBox.Show("Good Job")
Loop
```

a) This should be a Do Until .. Loop b) The count should start at -1
c) The text Good Job shouldn't have quotation marks d) The loop will never stop

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

```
Dim x As Integer = 1
Dim mysteryValue As Integer = 1

Do While x < 6
   mysteryValue *= x
   x += 1
Loop

displayLabel.Text = mysteryValue
```

Q3. Find the error(s) in the following code:

1. Assume that the variable x is declared and initialized to 1. The loop should total the numbers from 1 to 10.

```
Dim total As Integer = 0

Do Until x <= 10
   total += x
   x += 1
Loop
```

2. Assume that the variable counter is declared and initialized to 1. The loop should sum the numbers from 1 to 100.

```
Do While counter <= 100
   total += counter
Loop

counter += 1
```

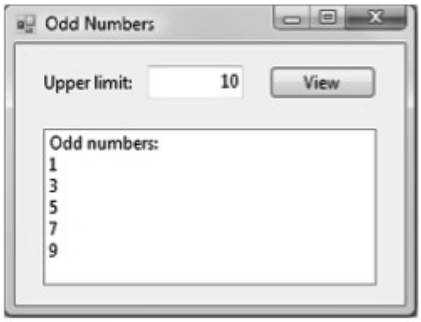
3. Assume that the variable counter is declared and initialized to 1000. The loop should iterate from 1000 to 1.

```
Do While counter > 0
   numbersListBox.Items.Add(counter)
   counter += 1
Loop
```

4. Assume that the variable counter is declared and initialized to 1. The loop should execute five times, adding the numbers 1–5 to a ListBox

```
Do While counter < 5
   numbersListBox.Items.Add(counter)
   counter += 1
Loop
```

Q4. Create (The Odd Numbers) application which should display all of the odd integers between one and the number input by the user.



Q5. Write an application that displays a table of numbers from 1 to an upper limit, along with each number's squared value (for example, the number n to the power 2, or n ^ 2) and cubed value (the number n to the power 3, or n ^ 3). The user specifies the upper limit, and the results are displayed in a ListBox, as in following figure.