3055 BA SANGAM COLLEGE



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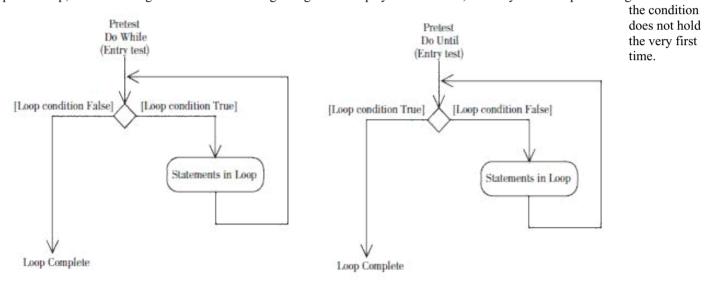
WORKSHEET 20

School: <u>Ba Sangam College</u>	Year / Level: <u>12</u>
Subject: <u>Computer Studies</u>	Name of Student:
Strand	Application Package
Sub strand	Visual Basic .Net Programming (VB.Net)
Content Learning Outcome	Analyse and construct programs using programming skills learnt from Visual Basic.Net

Repetition Structures (FOR...NEXT Loop, DO Loops)

1) pretest or entry test

The statements inside the loop may never be executed if the terminating condition is True the first time it is tested. In a pretest loop, the condition gets evaluated at the beginning of the loop cycle. Therefore, the body of the loop will not get executed if



Pretest Do/While Loop

Dim intNum AsInteger intNum = 2 __intitialise starting value

DoWhile (intNum <= 20) _ Condition

lblAnswer.Text = lblAnswer.Text &" "& intNum _concatenate answer intNum = intNum + 2 _increment by 2 for even numbers

Loop

For example, you want to output the message "Welcome" while the value of the variable x is less than 5. In such case, Do While loop will be used.

Pretest Do/Until Loop

Dim intNum AsInteger intNum = 2 _intitialise starting value

DoUntil (intNum>20) _ Condition

lblAnswer.Text = lblAnswer.Text &" "& intNum

intNum = intNum + 2 _ increment by 2 for even numbers

Loop

Suppose you want to exit the block when the value of x becomes 3 in the above program, then you need to code like this:

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```
<script type="text/vbscript">
Dim x
x=1
Do While x<5
document.write("Welcome.")
x=x+1
Loop
</script>
```

```
<script type="text/vbscript">
Dim x
x=1
Do Until x=5
If x=3 Then Exit Do
document.write("Welcome.")
x=x+1
Loop
</script>
```

Output

Output

Welcome.Welcome.Welcome.

Welcome.Welcome.

Activity

1) Design a user interface that accepts two numbers from the user via different textboxes (txtNum1, txtNum2) and computes their sum. The results should be displayed in a label (lblAnswer) when the (btnsum) is clicked. Label the interface with appropriate names. (5m)

2) Study the program given below and answer the questions that follow.

ii.

10 Cls	
20 Rem Simple loop program	
30 For x = 1 to 8 step 2	
40 Print x	
50 Next x	
60 End	

i. Name the loop structure used. (1m)

What will be the output for the above program? (2m)

iii. What is the purpose of the commands Cls and Rem? (2m)

iv. Which line number can be left out without affecting the program? (2m)

v. Draw a flow chart for the above program. (5m)

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