**Computer Programming 1
Essential Standard 5.05** Apply Looping Structures

**Anatomy of a Looping Structure**

**Syntax of Do...Loop While Syntax of For…Next Loop**

 **Do** **For** *intVariable* **=** *intStart* **To** *intEnd*  **Step** *intAmt*
 *Statements Statements*

 **Loop While**(*Boolean Condition)* **Next** *intVariable*

*\*\*Step is optional*

**Syntax of Do While...Loop**

 **Do While**(*Boolean Condition)*
 *Statements*

 **Loop**

**Practice the Decision Structure**

Write the appropriate loop for each expression.

1. Write a For…Next loop that will start at 0 and end at 10 counting by 2.
2. Write a For…Next loop that will start count backwards from 10 to 1.
3. Write a Do While loop that will loop until the user enters -1.
4. Write a Do...Loop While that will loop until the user enters “Stop”.
5. Write a Do While loop that will loop until the intNum is 10 when intNum starts at 1.
6. Write a Do. Loop While loop that will loop until the intNum is 10 when intNum starts at 1.

**Find the Errors & Rewrite**

**Find the syntax or logic error. Rewrite the code correctly.**

1. intNum = 0
Do While (intNum < 10)
 intNum -=1
Loop
2. For intNum As Integer = 0 to 10 Step -1
Next intNum
3. intNum =1
Do While (intNum > 10)
 intNum +=1
Loop