**Part 1**

1. Create a loop that starts counting at 0 and increments to 10. The loop body should print only even numbers to the user.
2. Create a loop that starts counting at 0 and displays only the numbers that can be evenly divided by 3 up to 60.
3. Create a loop that counts down from 10 to 0 by 1 value.

**Part 2**

**Clearly label the problems you are solving in your code using comments**

1. The following code has problems. Fix it. The code is supposed to count from 10 to 20 and displays the numbers.

Dim num4 As Integer

Do

num4 = 10

console.writeline(num+=1)

Loop Until (num4 = 20)

1. The following code has problems. Fix it. The code is supposed to count from 5 to 15 and displays the odd numbers only.

Do

Dim num5 As Integer = 5

num5++

Loop Until (num5 = 15)

1. The following code has problems. Fix it. The code is supposed to count backwards from 16 to 0 an decrement by 4s and display the values.

Dim num6 As String = 16

Do

console.writeline(num6-4)

Loop While (num6 <= 0)

1. Create a one dimensional array that can hold 10 integers.
2. Ask the user to provide a string. The user must provide a string whose length is longer than 20 characters.

* Use a loop to continuously ask for a string until the user provides a string that is long enough.
* If the user provides a string that is too short, let them know how many more characters they need to provide.
* Loop through the characters of the provided string and count how many vowels are contained in the string.
* Display the number of vowels to the user.

1. Create an array of strings with 10 elements. Ask the user to provide 10 strings to fill the contents of the array.

* Then ask the user to then provide a string to search the array.
* Search the array to see if the provided substring exists within any of the strings within the array.
* If it exists, display to the user the contents of the element where it is found.
* If nothing is found, display so to the user. The search must ignore case.

1. The input/outputs of the lab should look as seen below:

