Lab 4

CS321L Winter 2023, Professor Christopher Diggins

Write this function and two other versions. Once using a while loop, and another using a for loop. Don’t use an integer index. Instead use the enumerator object returned from “GetEnumerator()”. Read the documentation at: <https://learn.microsoft.com/en-us/dotnet/api/system.collections.generic.ienumerable-1.getenumerator?view=net-7.0>

Text

Description automatically generated with medium confidence

Write a unit-test for each function that tests the function on each of the three inputs:

OutputStrings(new[] { “apples”, “bananas”, “grapes” });

OutputStrings(new List<string>() { “planes”, “trains”, “cars” });

OutputStrings(MyGenerator());

The function MyGenerator() should look like this:

IEnumerable<string> MyGenerator() {   
 yield return “my”;   
 yield return “dog”;   
 yield return “loves”;  
 yield return “bananas”;   
}

The functions and properties you need are:

* IEnumerator<T> IEnumerable<T>.GetEnumerator()
* bool IEnumerator<T>.MoveNext();
* T IEnumerator<T>,CurrentValue;

Remember that calling the CurrentValue property before MoveNext() has been called at least once, is invalid and will always cause an error.

Submission:

* The source file
* Screenshot of the test output

Grading

* **3 points**