Question

A programmer has been asked to write a program which will receive a string and output each character of the string on its own separate new line.

Write an algorithm in pseudocode using a loop, which will perform the logic above.

Answer

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There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!

LOGIC:

-Ask the user to input a string
-Store string in a variable
-Start a loop which will iterate for the same number of characters in the string
-Inside the loop the:
- Display a character of the string using a counter (for the character's position), which increments as the loop iterates.

WHILE Loop Example:

```
string = input("Enter a word")
lengthOfString = string.length
counter = 0
while lengthOfString != 0
    print(string[counter])
    counter = counter + 1
    lengthOfString = lengthOfString - 1
endwhile
```

FOR Loop Example:

```
string = input("Enter a word")
for counter = 0 to string.length
    print(string[counter])
next counter
```

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