11/21/2020 LAB 18

LAB 18

Due Oct 19 by 11:59pm **Points** 5 **Submitting** a file upload **Available** until Oct 19 at 11:59pm

This assignment was locked Oct 19 at 11:59pm.

In this lab, you are to create an external file called String_Length() with the following contract:

String Length

```
@ Subroutine String_Length accepts the address of a string and counts the characters in the string, excluding the NULL character and returns that value as an int (word) in the R0 registe r. will read a string of characters terminated by a null @ R0: Points to first byte of string to count @ LR: Contains the return address

@ Returned register contents:

@ R0: Number of characters in the string (does not include null).

@ All registers are preserved as per AAPCS
```

Next you are to create driver program that calls your String Length() function and outputs the length of the string passed to it using putstring().

Upload both the program and a screenshot showing the output. Run your code with the string "Cat in the hat". Create some string variable to test.

