

Programming – TU857/1

Lab 16 – Thursday, March 7th, 2024

Note: You are expected to finish all programs in your own time if you do not get these done during the lab session. This is your own responsibility.

Strings (part 3)

Remember: Use Symbolic names in your programs. Do not hard-code.

Write separate programs to:

1. Write a C program that reads a string from standard input and **uses separate functions** to do the following:
 - (a) Count the number of times a vowel occurs in the sentence.
 - (b) Find the number of characters in the string you entered (use a string function). Using this number, display the string in reverse.
 - (c) Concatenate the string you entered to the end of the following string and display the new string:

char sentence[40] = "I entered the string "

Mandatory Exercise Question – You must complete and Demo to your Lab TA

2. Write a C program that reads a string from standard input and **uses separate functions** to do the following:
 - (a) Compare the string to the following string: "Hello World".
 - (b) Determine the frequency of the word "is" (assuming there is at least one occurrence).