

Computer Architecture and Organization

Project 1

Create an assembly function/program that will determine if a string is a palindrome regardless of the uppercase/lowercase.

A C/C++ program should declare and initialize the string (c-string recommended). Then, it should pass the string to an assembly function that will return either true or false (1 or 0). Based on the returned value, the C/C++ program should display an appropriate message.

IMPORTANT: Given string capitalization should not matter. For example, "Kayak" should be found to be a palindrome. Remember that conversion to upper/lower case is achieved in one masking operation. The given string is assumed to contain only letters with no spaces or punctuation.