Introduction to ComputING

Section G

Exercise 4 – STRINGS

Writing the pseudo-code always helps before coding

**PROBLEM 1**

Write a function to find the length of a string. In the caller function, input the string from the user and output its length.

**PROBLEM 2**

Implement the concatenate function of two strings as discussed in class.

**PROBLEM 3**

Write a function that returns the index position of a substring found in the string. For example:

FindSubstring(“abcdef”,”cd”) should return 2 as “cd” starts at index position 2. If the substring is not found then it should return -1.

**PROBLEM 4**

Write a function to compare two strings and should output true if the strings are the same and output false if they are different.

**PROBLEM 5**

Implement a function to replace all occurrences of a character by a substring. For example if the original string is “h**e**llo how ar**e** you”, and you have to replace all ‘e’ by “abc” then the function should make this string “h**abc**llo how ar**abc** you”. This is similar to the “find and replace” functionality found in text editors.

The character and the substring should be passed as parameters to the function. To test the above function the caller function should input the original string, the character and the substring from the user.