## **Assignment-6**

1. Write a C program which will accept two strings and check whether all characters from the first string are present

in the second string. Order in which the characters are present is not important. Example run: if String-1 is "abcd" and String-2 is "bcxyzad", the program outputs "Yes", whereas if String-1 is "abcdr",

the program outputs "No". Assume each string can have maximum 10 characters.

Input: the two strings from the user

Output: "Yes" or "No" [2]

2. Write a C program to find the average of "n" integers entered by user. To perform this task, allocate memory dynamically, and do not use

any statically declared large array.

Input: value of "n", and the "n" integers

Output: The average of the "n" integers entered

[2]

3. Write a C Program with a function "void remove\_non\_characters (char \*str)" to remove all characters in a string except alphabetical characters. For example, if the input string is "p2'r"o@gram84iZ./", the output string would be "programiZ". Note that the function

"remove\_non\_characters()" should modify the original string.

[2]

4. Write a C Program to sort five words in "Lexicographical Order" (i.e., dictionary order). Use any sorting

algorithm of your choice. You should collect the words from the user in a loop, and store it in an array of strings, with each row containing exactly one string. You are not allowed to allocate any extra memory than required; thus, for each row of the array, you must perform dynamic memory allocation.

Do not forget to free all dynamically allocated memory after the program finishes. The sorting should

modify the original array of strings.

Input: five words from the user

Output: the sorted array contents, printed in order

[4]