**CSE 310 – Lab test 2**

**Total marks - 40**

1. Suppose you are working with words. You have a file called – “*words.txt*” where each line contains a single word. Your work is to count how many times a word appears.

First, you have to write a file named *countwords.py* where there will be a function called *countWords(filename)*. This will take the filename *“words.txt”* as an argument and generate a dictionary where the keys will be the words and values will be the counts of that words’ occurrence. This function will return the dictionary.

In another file named *user.py*,you have to take inputs from user and print the words’ counts in a file.

* In *user.py*, first,you have to import the *countwords.py* module to generate the dictionary.
* Then in a while loop, you have to take inputs from the user. User will input one word at a time.
* Then you have to check if the word exists in the file. If it exists then you have to write that word and that word’s count in a file named *“output.txt”*. Each line in the *output.txt* file will contain the word and the count with a space separation.
* If the word does not exist in the file you have to print, “The word does not exist”
* When the user inputs -1, the loop will stop.

Rubrics:

Reading the words from the text file – 5

Generating the dictionary – 5

Writing the function and returning the dictionary - 5

Using Module - 10

Taking user inputs of words – 5

Selecting or discarding words – 5

Printing the output in a file - 5