CSL-101 Computer Programming

(Assignment – 4)

Announcement date 24-05-2020

Due date: Submit online by 02:00 pm on Saturday 1st June 2020

No late submission will be allowed in any case for this particular assignment. Early submissions are welcome.

No copying/sharing of code is allowed for the assignment. If any such case is identified, the original author and person who has copied penalized equally and zero marks will be awarded.

Q.1   Write a C program to find whether any vowel is present (yes/no) in a given character file.

Q.2   Write a program which reads integers from user and stores the odd integer in file called "odd.txt" and even integers in the file called "even.txt". Also display the contents of odd and even file at the end.

Q.3   Write a program to change the alphabets in a file in the following manner. Replace each alphabet with the succeeding one i.e., A with B, B with C, …, Z with A.
Note: Use "r+" mode, which is read and update.

Q.4   Write a program to print the text of file on screen by printing the text line by line and displaying the line numbers before the text in each line.

Q.5   Write a program to count the number of lower case, upper case, numbers, and special characters present in a file.

Q.6   Write a program to compare two files to check whether they are identical or not.

Q.7   Assume that there are two files-Names1 and Names2 that stores sorted names (each name on newline) of students who would be participating in Activity1 and Activity2, respectively. Create a file NAMES.TXT which stores the names from both files. Note that there should be no repetition of names in NAMES.TXT and while writing name into it, ensure that they are sorted.

Q.8   In Q.7, if the two files contain sorted numbers, write a program to create a third file having integers from both the files in sorted order. In other words, merge the sorted numbers given from two files in a third file so that the numbers in third file remain sorted. The numbers could be in single line or every number on a new line. (The order doesn't matter)

Q.9   Write a program to create a file that stores only integers. Append the sum of these integers at the end of the file.
NOTE: To open a file in append mode, fp = fopen ("test.txt", "a"). This ensures that the new data is appended at the end of the existing data and not overwritten onto it.

Q.10   A file with a line of English text will be given, where words are separated by one of the following symbols: ' ', '\t', '.', ',' and ';'. Each word may be separated from the next and the previous by one or more of the given symbols. You have to count the number of words in the sentence. For example, input = in fact; the punctuation need not be proper. one more sentence, output = 11.