

- f) To accept line of text and find the number of characters, number of vowels and number of blank spaces in it.
- g) Write an example program to illustrate the use of any 5 string handling functions.

V) Write example programs in C Language to perform following operations:

- a) Example program to bring clarity on pointer declaration & initialization and Pointer arithmetic.
- b) Write an example program to describe the usage of call by reference.
- c) Write a program to find sum of the elements of the array using functions.

VI) Write example programs in C Language:

- a) To find factorial of a given number using functions.
- b) Swap two numbers using functions.
- c) To find GCD of two numbers using recursion
- d) Write a recursive function to solve Towers of Honai problem.
- e) Write an example program to illustrate use of external & static storage classes.
- f) Write an example program to illustrate the usage of command line arguments.
- g) Program to illustrate the usage of dynamic memory management functions.

VII) Write example programs in C Language to perform following operations:

- a) Write an example program using structures to process the student record. Assume suitable fields for student structures (Different kinds of initialization of structure variables are to be exercised)
- b) Write a program to read records of 10 employees and find their average salary (exercise array of structures & Nested structures concepts through this program).
- c) Write a program to handle a structure variable using pointers and implement self-referential structure (i.e. A structure variable having a pointer to itself)

VIII) Write an example program on file to perform following operations:

- a) Accessing content from files and writing content in to it.
(Exercise different file operation modes)
- b) Copy the contents of one file into another
(Exercise different file operation modes)