## **C Sample Assignment Questions**



Q1. Menu driven program to add, delete, Modify records and Display record of the employee attendance in an IT company using binary file.

Q2. Write a program using dynamic memory allocation and pointers to construct an ordered doubly linked list based on the experience of the employee, where each node consists of the following information: Employee id (integer), Employee name (character string) and experience (integer).

Q3. Write a C Program to construct a stack of integers and to perform the following operations on it

push

pop

display

The program should print appropriate messages for stack overflow, stack underflow and stack

Q4. Write a program to using files to encrypt and decrypt .Use 2 separate files for output Use command line arguments.

Q5. Write a C program for searching a book in a library catalogue containing the following fields: Accno, title, publisher (use structure data type). The program should facilitate to both add book records as well as to search a particular book .The

searching is through (i) titlewise

- (ii) authorwise
- (iii) publisher wise

Q6. Write a function to generate the following pyramid of numbers

Q7. Write a program that maintains an address book. This program adds the detail of the contact to the file "add book.dat". The program also gives the user a choice of functions like

Add a contact Display contact Modify the details of a contact Delete a contact

Q8. Write a program to sort a number of strings using bubble sort. Input is a number of strings and the output is the sorted list based on the length of strings.

For eg: If input is jyoti, sareeka, anisha, sangita, savita, suja The output is suja, jyoti, anisha, savita, sareeka, sangita Q9. Write a function squeeze(s1,s2) that deletes each character in string s1 that matches any character in string s2.

- Q10. Write a program to search a word from a text file.
  - a. If the word is found print a message that the word is found along with the position of the word in the file.
- b. If the word is not found, print the message that the word is not found along with the total number of words in the file.
- Q11. Using pointers write your own functions for the following:
  - a. String comparison
  - b. String concatenate
  - c. String copy
  - d. String length.

Note: Do not include <string.h> in your program

- Q12. Write a program to maintain a singly linked list having the following functions:
  - a. Creation of the list.
  - b. Displaying the list.
  - c. Traverse through the linked list and add contents of two consecutive nodes. The result should be inserted soon after the nodes added.

Note: If the linked list contains the data: 5 15 8 9 2 6

The new linked list should contain the data in the following order: 5 15 20 8 9 17 2 6 8.

Display both the original linked list as well as the new linked list.

- Q13. Write a menu driven program the depicts the working of a CD Shop. The menu option should be:
  - 1. Add CD information
  - 2. Display CD information
  - 3. List the count of the CD in the Shop
  - Exit
- Q14. There are 10 records present in a file with the following structure:

Write a program to read these records and display them in ascending order on the field item name and write them into a text file in ascending order.

- Q15. Write a menu driven program, which has following option:
  - a. Reverse each line in the input file and store it in another file.
  - b. Reverse each word in a file and store it in another file
  - c. Display the file.