C Programming
Lab Assignment Set 7

1. Design a structure: Distance with members : feet and inches, with appropriate data type. Write the main program in C to read distance and display it in appropriate format

2. Design a structure: Student with members : roll, name, contact, and marks obtained in C and DL. Write a program to read the details of students and display it in appropriate format.

3. Write a program to copy a structure variable.

4. Write a program to read roll, name, marks in C and Dl of 10 students and then display them in tabular format.

5. Design a structure : employee with members eid, name, post and salary.

- Write a program to read records of n employees and then display the details of those employees whose post is "Clerk".

- And display the details of those employees whose salary is >=50000.

6. Design a structure : student with members roll, name, marks in 5 subjects, total marks, percentage and results. Write a main program to read the details of n students and find total marks, results and percentage. Display the result in tabular format. Also display the detail of the student with the highest percentage.

7. Write a program to find the area of your classroom using nested structure.

8. Write a program to read roll, name and marks in C of a student using structure and pointers.

9. Write a program to read eid, name, name, post and salary of n employees and display the records of those employees whose salary is less than 30000. [Using Structure and DMM]

10. Demonstrate the use of:

- Passing the member of structure as a function argument.

- Passing the value of entire structure as a function argument.

- Passing the address of a structure variable as a function argument.

11. Design a structure distance with member feet and inches with appropriate data types and use function read() for reading the distance, function display to display the distance in appropriate format and add distance to add two distances. Write a main program in C to read two distances and find their sum and then display the result in appropriate format.

12. Write a program to read roll, name and marks in C of n students

- Arrange the records according to descending order of marks using function.

- Arrange the records according to alphabetical order of the name field.