C Programming – Lab Report V

1. Write a menu driven program which performs the following jobs:
   a. Create a structure named student with member variables: roll, name, grade, gender, age.
   b. Define ten structure variables of type student and using loop take input for all ten structure variables.
   c. Display names of all male students.
   d. Exit.

2. Write a program to add two complex number using structure.

3. Write a program to add two complex number using structure and user defined function.

4. Write a program to multiply two complex number using structure.

5. Write a program to add two distance in feet-inch system using structure and user defined function.

6. Write a program to find difference between two time periods using structure.

7. Write a program to read records of n students and display details of student having highest mark.

8. Write a program to read records of n different students in structure and sort on the basis of marks in ascending order.

9. Write a program to display the address and value of a variable using pointer.

10. Write a program that accesses array elements of a one-dimensional array using pointers.

11. Write a program to add two mxn matrices using pointer.

12. Write a program to pass pointer variable to function, sum them and display after returning it.

13. Write a program to calculate average marks of 5 students in a subject using pointer.

14. Write a program to read an array of integers using DMA and display the maximum and minimum value.

15. Write a program where a function accepts a string and a character. The function should look for the first occurrence of the character in the string and return a pointer to that location.

16. *Write a program to create a file named demo.txt and write some text "I am studying well for board exam" to the file.*

17. *Write a program to open the file named demo.txt, read its content and display it to screen.*

18. *Write a program to append some text to a file by reading filename from user.*

19. *Write a program to open a file and copy all its content to another file.*

20. *Write a program where a text file is given and another text file should be created deleting all the vowels (a, e, i, o, u).*

21. *Write a program to create a file named student.txt and write name, roll, address, and marks of a student to this file.*

22. *Write a program to draw a circle.*

23. *Write a program to draw a line.*

24. *Write a program to draw a square.*

25. *Write a program to draw a right-angled triangle.*