ASSIGNMENT 5

1. What is the relationship between arrays and pointer? Explain with example. (6)
2. Write a program to calculate sum of all number in a given matrix using pointer. (6)
3. What is a pointer? How is a pointer variable different from an ordinary variable? (1+5)
4. Write a program to read 10 numbers and sort them in ascending order using pointer. (6)
5. Write short notes on: Dynamic memory allocation (6)
6. Write a function using pointers to add two matrices. (6)
7. What does p, &p and *p represents if 'p' is declared as integer pointer? (4)
8. WAP using pointer to swap the value of two variable where the swapping operation is performed in separate function? (6)
9. What do you mean by generic pointer, null pointer and file pointer? (4)
10. What are the advantages of using pointer in C programming? WAP in c to find second largest element from an array containing N elements using concept of pointer. (3+4)
11. Define following term: (1*5=5)
    i.   int *p;
    ii.   int p(char *a)
    iii.   int (*p(char *a))
    iv.   int *p(void)
    v.   int *(*p[10])(char a)
12. why are fgets(), fputs(), fgetc(), and fputc() used? (4)
13. Write a program to enter name, roll and mark of 10 students and store them in the file.   Read and display the same from the file. (6)
14. What is a files ad explain its importance in C programming? (4)
15. What is a file? Write a program in C that allows a user enter name, age, sex, address, number of songs recorded duet singers using a file. The program should also have the provision for editing the details of any singer. (8)
16. Describe any two-file handling input/output function. (4)
17. Write a program that read a file name employee.txt that stores employee name, id, salary and display the detail of N employee in the order of their salary. (8)

18. Explain in brief the various file opening modes. What is the significance of EOF? (6+2)

19. WAP in c to read integers from user until user say "no". After reading the data write all the odd numbers to a filename odd.txt and all even numbers to a file named even.txt. (6)

20. WAP to copy content of one file source.txt to another destination.txt. (8)

21. WAP to read name and roll number of 48 students from user and store them in file name student.txt. If the file already contain data, your program should add new data set at the end of file. (6)

22. WAP to read info of a file named data.txt and write its content to another file record.txt. (6)

23. List different types of standard I/O used in C. WAP to write name, address, roll no, and age of five student into a disk file name "student.txt". (2+6)

24. WAP to read the detail of book authors and write it to a file until the user confirms to end. The read and display the Nth record in the file, where N is read from the user. The data for authors must be represented by structures that contain name, nationality and number of books published. (8)

25. What are binary and text files? WAP to read the following information for 96 students.
    Student name, student roll no, marks obtained (in 100)
    Record all data in "ioe.txt" file and program should print roll number and name of student who have obtained greater than or equal to 40 marks. (3+8)