

## B.TECH. CSE SEMESTER – II

2020

### WORKSHEET-IV

1. What are merits and demerits of arrays? Also, discuss n-dimensional array.
2. WAP that takes elements of the array from the user and finds the sum of these elements.
3. WAP to search an element in an array using Linear Search.
4. WAP to sort the elements of the array in ascending order using Bubble Sort technique.
5. WAP to add and multiply two matrices of order  $n \times n$ .
6. WAP that finds the sum of diagonal elements of an  $m \times n$  matrix.
7. WAP that inputs two 2-D arrays and saves sum of corresponding elements of these arrays in a third array and prints them.
8. WAP to find the minimum and maximum element of the array.
9. What happens when an array with a specified size is assigned
  - With values more than the specified size.
  - With values less than the specified size.
10. What is difference between structure and union? Explain nesting of structures.
11. Discuss usability of union data type.
12. Write short notes on:
  - structure
  - union
  - enumeration
13. Write the rules for initializing structures.
14. Define a structure type, '**struct personal**', that would contain person's name, date of joining, and salary. Using this structure, write a program to read this information for three persons from the keyboard and print the same on the screen.
15. Explain the meaning and purpose of the following:
  - typedef keyword
  - struct keyword
  - nested structure
16. Describe with example, the different ways of assigning values to structure members.
17. Define a structure called '**complex**' consisting of two floating-point numbers  $x$  and  $y$ . Declare a variable  $p$  of type '**complex**'. Assign initial values 0.0 and 1.1 to the members and print the same.