## Asignment-2 CSE 1103, L1/ T1

**10. Array:**

**1. Write a C program to find out largest element of an array.**

**2. Write a C program to find out second largest element of an unsorted array.**

**3. Write a C program to find out second smallest element of an unsorted array.**

**4. Write a C program to find which deletes the duplicate element of an array.**

**5. Write a C program for delete an element at desired position in an array.**

6. Write a C program for insert an element at desired position in an array.

**7. C program to find largest and smallest number in an array.**

**11. Matrix:**

**1. Write a C program for addition of two matrices.**

**2. Write a C program for subtraction of two matrices.**

**3. Write a C program for multiplication of two matrices.**

**4. Write a C program to find out sum of diagonal element of a matrix.**

**5. Write a C program find out transport of a matrix.**

6. Write a C program for scalar multiplication of matrix.

7. C program to find inverse of a matrix. (Incomplete)

**8. Lower triangular matrix in C.**

**9. Upper triangular matrix in C.**

10. Strassen’s matrix multiplication program in C.

11. C program to find determinant of a matrix. (Only 3x3)

### 12. Sorting

**1. Write a C program for bubble sort.**

**2. Write a C program for insertion sort.**

3. Write a C program for selection sort.

1. Write a C program for quick sort.
2. Write a C program for heap sort.
3. Write a C program for merge sort.
4. Write a C program for shell sort.

### 13. Recursion

**1. Write a C program to find factorial of a number using recursion.**

**2. Write a C program to find GCD of a two number using recursion.**

**3. Write a C program to find out sum digit of a number using recursion.**

**4. Write a C program to find power of a number using function recursion.**

**5. Write a C program to reverse any number using recursion.**

### 14. Swapping

**1. Write a C program to swap two numbers.**

**2. Write a C program to swap two numbers without using third variable.**

**3. Write a C program to swapping of two arrays.**

**4. Write a C program for swapping of two string.**

### 15. String

**1. Write a C program to convert the string from upper case to lower case.**

**2. Write a C program to convert the string from lower case to upper case.**

**3. Write a C program to delete the all consonants from given string.**

4. Write a C program to count the different type of character in given string.

**5. Write a C program to sort the characters of a string.**

**6. Write a C program for concatenation two strings without using string.h header file.**

**7. Write a C program to find the length of a string using pointer.**

**8. Write a C program which prints initial of any name.**

**9. Write a C program to print the string from given character.**

**10. Write a C program to reverse a string.**

**11. Reverse a string using recursion in C.**

**12. String concatenation in C without using strata.**

**13. How to compare two string in C without using strcmp.**

**14. String copy without using strcpy in C.**

**15. Convert a string to ASCII in C.**

### 16. File

**1. Write a c program to open a file and write some text and close its.**

**2. Write a C program to delete a file.**

1. **Write a C program to copy a file from one location to other location.**
2. **Write a C program to copy a data of file to other file.**
3. **Write a C program which display source code as an output.**
4. **Write a C program which writes string in the file.**
5. **Write a C program which reads string from file.**
6. Write a C program which writes array in the file.
7. Write a C program which
8. **Write a C program to find out size of any file.**
9. Write a C program to know type of file.
10. Write a C program to know permission of any file.
11. Write a C program to know last date of modification of any file.
12. Write a C program to find size and drive of any file.

1. **Using Pointer**

**1. Write a C program for concatenation two string using pointer.**

1. **Searching**

**1. Write a C program for linear search.**

**2. Write a C program for binary search.**

3. Write a C Program for search using recursion.