LAB 1 – 17.08.2022 – REVIEW OF C PROGRAMMING

Revisiting some major C Programming concepts given below, through programs.

- Arrays
- Structures
- Pointers
- Functions

List of problems:

Write programs for the following problems.

1. Reverse an array of numbers.
2. Find the length of the string,
   a. Without pointer.
   b. With pointer.
3. Compare any two strings - use pointers.
4. Perform matrix multiplication – no pointer manipulation.
5. Perform matrix subtraction – use pointers.
6. Find area/volume of different shapes (any 3) using different programming modules.
7. Read and store students' enrollment details – use structure (NOT AS FILE). (* apply passing structure as a function argument approach).
8. Same as Q7 – use pointer as argument.
9. Generate n^{th} Fibonacci term – use recursive function.
10. Create a list of players of your favorite game. Allow all possible updation to the list – use self referential structure.

Scheme of Evaluation

1. Program - working version **with valid** sample input and output - full marks.
2. Program - working version **with invalid** sample input and output – 80% marks.
3. Program - working version without sample input and output - 65% marks.