**Assignment 1**

**Instruction:**

* Upload Handwritten assignment solution along with output by 9:00 pm of 22 /1/2021.

**Problem 1.**

Implement a menu driven Program with help of function in C for the following Array operations.

a. Creating an Array of N Integer Elements

b. Display of Array Elements with Suitable Headings

c. Inserting an Element (ELEM) at a given valid Position (POS)

d. Deleting an Element at a given valid Position (POS)

e. Exit

**Problem 2.**

Write a Program in C for the following operations on Strings without using inbuilt function:

**a.** Read a main String (STR), a Pattern String (P\_str) and a Replace String (R\_str)

**b.** Perform Pattern Matching Operation: Find and Replace all occurrences of P\_str in STR with R\_str if P\_str exists in STR. Report suitable messages incase P\_str does not exist in STR.

**Problem 3**:

Write a program using C to find out the largest and smallest element in an 1D array using dynamic memory allocation.