

## C Programming Lab Questions on 02/12/2024

### Preparation questions

- 1) Write a program to create a union with the name student and it includes name regno, percentage. Get or assign the inputs to the members and print the same.
- 2) Write a program to create a pointer to a structure called student. The student structure includes regno, name, mark[6], total and grade. Perform the following operations on it.
  - a) find the total and grade
  - b) find the name of the student who got the highest total
  - c) create array of structure and sort it based on total.

### Execution questions

- 1) write a program to find the sum of elements which are stored dynamically in memory.(use malloc () function for dynamic memory allocation).
- 2) Write a program to reallocate the memory which is allocated earlier and find the sum again.
- 3) write a program to create a structure called student and allocate memory dynamically for n students by using calloc() function. Store the students details in allocated memory and display the same and deallocate memory which is allocated.
- 4) Write a program to create a file with name student.txt and it stores the student details like name , regno, age, percentage. Display the students details on the console and close file.