# Lab 12: Arrays and Structures

## Objectives:

To practice arrays and structures

## Tasks:

1. Write a program to cyclically rotate an array by N. Take N as input from user. Give the user choice of selecting rotate left or rotate right.

**Example:**

Please Enter L/l for rotate left and R/r for rotate right: R

Please enter the number of times you want to rotate the array: 1

Input arr[] = {1, 2, 3, 4, 5}

Output: arr[] = {5, 1, 2, 3, 4}

1. Write a program that takes a string as an input and displays the frequency of all the alphabets.
2. Given an array arr that has numbers appearing twice or once. Write a program to identify numbers that occurred only once in the array.
3. Write a program to develop student information system. This system should be able to take the student’s credentials, like name, reg no and semester no, as input and store them in a structure variable Student\_t.

Print the data of students in ascending order of their registration numbers.