# Lab 13: Arrays and Structures

## Objectives:

To practice arrays and structures

## Tasks:

1. Write a Store the temperature of last 10 days of 3 cities in the database and display for how many days the temperature was below 30 degree and how many days it was above 30 in each city. Find the average temperature of each city and display which city is the warmest.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Day 1** | **Day 2** | **Day 3** | **Day . . .** | **Day 10** |
| **City 1** | **30** | **31** |  |  |  |
| **City 2** | **20** | **30** |  |  |  |
| **City 3** | **5** | **32** |  |  |  |

1. Write a program to enter to Cartesian coordinate points and display the distance between them.
2. UET is maintaining student attendance records by storing rollno, stdname, attendance percentage in 5 different subjects. Write a program to find the average attendance percentage and print the following

a) If attendance percentage >=75 then print student is eligible for writing final exam.

b) If attendance percentage >= 65 and <75 then print student is in condonation list.

c) Otherwise not eligible for writing exams. Write a program to model a structure for time and performs mathematical operations such as add and subtract.

1. Write a structure to store the name, account number and balance of customers (more than 10) and store their information.

i - Write a function to print the names of all the customers having balance less than Rs.200.

ii - Write a function to add Rs.100 in the balance of all the customers having more than Rs.1000 in their balance and then print the incremented value of their balance in ascending order.