**Lab Exercise**

**Date : 15-03-2022**

**Topic : Arrays & Inheritance**

**1)** The daily maximum temperatures recorded in 10 cities during the month of January. Write a Java application to read the table elements into a 2-dimensional array temperature and to find the city and day corresponding to highest temperature and lowest temperature.

2) In an educational institution, one of the M.Tech class with 30 students have the following properties: Roll number, Name, Date of Birth, weight, height. Write a suitable constructor and a method to display the details of all the students and also display roll numbers of the students who are 19 years old or more with weight above 75 kg but height less than 172 cm.

3 ) In Chennai Corporation house tax is levied annually. If the house is under owner’s occupation then the tax is levied as 0.5% of the total value of the property. If the property is rented, then 10% of the annual rent is the annual house tax for the property.

Define a class House and a derived class RentedHouse and implement the taxing procedure. You program should be repeat the process till the user wishes to continue.