CSE1007 – JAVA Programming

Lab Exercise on Arrays

Question 1

One of the leading newspapers wants to display the Olympic medals tally on its online edition with few additional features:

i)   To print the countrywise total
ii)   To print medalwise total
iii)   Display India's current position

For each of the above, design a method and the method signature is given below:

int countryTotal (String countryName, int[][] medalTally);

int medalTotal (String medalType, int[][] medalTally);

int position (int[][] medalTally);

Devise a JAVA application to test the above methods.

Question 2

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.

Question 3

An election is contested by 5 candidates, the candidates are numbered from 1 to 5 and the voting is done by making the candidate number on the ballot paper. Write a Java application to read the ballots and count the votes cast for each candidate using an array variable count. In case, a number read is outside the range 1 to 5, the ballot should be considered as a "Spoilt ballot" and program should also count the no. of spoilt ballots.