**Jaypee University of Engineering and Technology, Guna**

**Department of Computer Science and Engineering**

**Object Oriented Programming Lab (14B17CI371)**

**Lab Exercise-4**

1. The annual examination results of 100 students are tabulated as follows:

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Roll No. Subject 1 Subject 2 Subject 3

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Write a program to read the data and determine the following:

a) Total marks obtained by each student.

b) The highest marks in each subject and the Roll No. of the students who secured it.

c) The student who obtained the highest total marks.

1. Define a class to represent a bank account, including the following data members:

* Name of the depositors
* Account number
* Type of account
* Balance amount in the account

and member functions:

* + To assign initial values
  + To deposit an amount
  + To withdraw an amount after checking the balance
  + To display the name and balance

Write a main program to test the program.

1. Create two classes DM and DB which store the value of the distances. DM stores distances in meters and centimeters and DB in feet and inches. Write a program that can read values for the class objects and add one object of DM with another object of DB.

Use a friend function to carry out the addition operation. The object that stores the results may be a DM object or DB object, depending on the units in which the results are required. The display should be in the format of feet and inches or meters and centimeters depending on the object on display.