Java Case Study

Total Marks-25

The Staff selection committee decides every applicant must appear selection exam in three subjects as per applicants choice of subjects. They must qualify minimum 70% of total. Individual subject pass mark is 50 out of 100.

1. You need to show all passed applicants id, name, subject-wise marks, total and percentage .
2. You need to create a class Applicant with following members

Integer id ( auto generated starting with 101)

String name,

Double subject1Mark,

Double subjec2Mark,

Double subject3Mark,

Double total,

Double percentage

Create getter and setter method,

override toString() with String.format("%-5s %-10s %-5s %-5s %-5s %-10s %-10s",....);

1. Create class MarksException from RuntimeException which will be raised if any applicant’s any subject marks is negative or above 100.

4. Create class StaffMain with following methods:

a) public static void main(String arg[]):- It will accept first number of applicants details to enter. Then accept each applicant name, marks for subject1,subject2 and subject3 in a comma separate(,) format eg: *Amit,89,65,73*

b) public static Double totalCalculation (Applicant applicant)-> return total by adding 3 subject marks. If any subject’s mark is below 50 return 0.

c) public static Double percentageCalculation (Double total)-> return percentage by calculating (total/300)\*100.

Finally display passed applicants details

Input format:

**Enter number of applicants:**

**5**

**Enter applicant details:**

**Eric,75,80,95**

**Enter applicant details:**

**Bill,25,78,75**

**Enter applicant details:**

**Rosy,95,85,65**

**Enter applicant details:**

**Mary,85,45,90**

**Enter applicant details:**

**Jill,80,75,60**

Output format:

**101 Eric 75 80 95 250 83.33**

**103 Rosy 95 85 65 245 81.67**

**105 Jill 80 75 60 215 71.67**