

Rajalakshmi Engineering College

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 5_Q5

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Ram is working as a developer for BrightEdu Coaching Center, which wants to build a student fee management system.

Each student's enrollment has:

An Enrollment ID (integer) A Student Name (string) The Number of Subjects (integer)

The fee calculation rules are:

Registration Fee = 1000 units (flat for every student). Per Subject Fee = 800 units. If the student enrolls in more than 5 subjects, a 20% scholarship (discount) is applied on the total fee.

Ram has been asked to implement this system using:

A class with attributes for student details. A constructor to initialize student details. Setter methods to update details if needed. Getter methods to retrieve details. Objects of the class to represent student enrollments.

Finally, display each student's details and final fee.

Input Format

The first line of input contains an integer N, representing the number of students.

For each student:

- The next line contains the Enrollment ID (integer).
- The following line contains the student's name (string).
- The next line contains the Number of subjects (integer).

Output Format

For each student, print the details in the following format:

- Enrollment ID: <enrollment_id>
- Student Name: <student_name>
- Final Fee: <final_fee> (rounded to one decimal place)

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 1

1234

Ravi Kumar

3

Output: Enrollment ID: 1234

Student Name: Ravi Kumar

Final Fee: 3400.0

Answer

```
import java.util.*;
class Developer{
    private int enroll_id;
    private String student_name;
```

```

private int numSub;
private double final_fee;
public Developer(int enroll_id,String student_name,int numSub){
    this.enroll_id=enroll_id;
    this.student_name=student_name;
    this.numSub=numSub;
    calculateFee();
}
public void setEnrollmentId(int enroll_id){
    this.enroll_id=enroll_id;
}
public void setStudentName(String student_name){
    this.student_name=student_name;
}
public void setNumSubjects(int numSub){
    this.numSub=numSub;
    calculateFee();
}
public int getEnrollmentId(){
    return enroll_id;
}
public String getStudentName(){
    return student_name;
}
public int getNumSubjects(){
    return numSub;
}
public double getFinalFee(){
    return final_fee;
}
private void calculateFee(){
    final_fee=1000+(numSub*800);
    if(numSub>5){
        final_fee=final_fee*0.8;
    }
}
public void display(){
    System.out.println("Enrollment ID: " + enroll_id);
    System.out.println("Student Name: " + student_name);
    System.out.printf("Final Fee: %.1f\n",final_fee);
}
}

```

```
public class Main{  
    public static void main(String[] args){  
        Scanner sc=new Scanner(System.in);  
        int n=sc.nextInt();sc.nextLine();  
        for(int i=0;i<n;i++){  
            int id=sc.nextInt();sc.nextLine();  
            String name=sc.nextLine();  
            int subjects=sc.nextInt();  
            Developer developer= new Developer(id,name,subjects);  
            developer.display();  
        }  
    }  
}
```

Status : Correct

Marks : 10/10