

# TECHNICAL TRAINING (CAF109)

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## STUDENT MARKSHEET

CODE:

```
import java.util.Scanner;

public class Student{
    private int rollNo;
    private String name;
    private int[] subjectMarks;

    // Constructor
    public Student(int rollNo, String name, int[] subjectMarks){
        this.rollNo = rollNo;
        this.name = name;
        this.subjectMarks = subjectMarks;
    }

    // Getter and setter methods
    public int getRollNo(){
        return rollNo;
    }

    public void setRollNo(int rollNo){
        this.rollNo = rollNo;
    }

    public String getName(){
        return name;
    }

    public void setName(String name){
        this.name = name;
    }

    public int[] getSubjectMarks(){
        return subjectMarks;
    }

    public void setSubjectMarks(int[] subjectMarks){
        this.subjectMarks = subjectMarks;
    }
}
```

```

}

// Method to compute total marks
public int computeTotalMarks(){
    int totalMarks = 0;
    for (int mark : subjectMarks){
        totalMarks += mark;
    }
    return totalMarks;
}

// Method to compute percentage
public double computePercentage(){
    int totalMarks = computeTotalMarks();
    return (double) totalMarks / subjectMarks.length;
}

// Method to compute grade
public char computeGrade(){
    double percentage = computePercentage();
    if (percentage >= 90){
        return 'A';
    }
    else if (percentage >= 80){
        return 'B';
    }
    else if (percentage >= 70){
        return 'C';
    }
    else if (percentage >= 60){
        return 'D';
    }
    else{
        return 'F';
    }
}

// Method to print student report card
public void printReportCard(){
    System.out.println("Student Report Card");
    System.out.println("Roll No: " + rollNo);
    System.out.println("Name: " + name);
    System.out.println("Subject Marks:");
    for(int i = 0; i < subjectMarks.length; i++){
        System.out.println("Subject " + (i + 1) + ": " + subjectMarks[i]);
    }
    System.out.println("Total Marks: " + computeTotalMarks());
    System.out.println("Percentage: " + computePercentage() + "%");
}

```

```

        System.out.println("Grade: " + computeGrade());
    }

    public static void main(String[] args){
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Roll No: ");
        int rollNo = scanner.nextInt();
        scanner.nextLine(); // Consume newline
        System.out.print("Enter Name: ");
        String name = scanner.nextLine();
        int[] marks = new int[3];
        for(int i = 0; i < 3; i++){
            System.out.print("Enter marks for Subject " + (i + 1) + ": ");
            marks[i] = scanner.nextInt();
        }
        Student student = new Student(rollNo, name, marks);
        student.printReportCard();
        scanner.close();
    }
}

```

## OUTPUT:

```

PS C:\Users\riyaa\Desktop\Java> & 'C:\Users\riyaa\AppData\Local\Programs\Eclipse Adoptium\jdk-17.0.8.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\riyaa\AppData\Roaming\Code\User\workspaceStorage\2252015643fc8f1ffc210b413d691a52\redhat.java\jdt_ws\Java_1a8032e1\bin' 'Student'
Enter Roll No: 1000017861
Enter Name: Arjun Saini
Enter marks for Subject 1: 95
Enter marks for Subject 2: 90
Enter marks for Subject 3: 97
Student Report Card
Roll No: 1000017861
Name: Arjun Saini
Subject Marks:
Subject 1: 95
Subject 2: 90
Subject 3: 97
Total Marks: 282
Percentage: 94.0%
Grade: A

```