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package Exercise2;

import java.util.Scanner;

public class StudentReportCard {

    String name, rollNo;

    String grade, section;

    int marks_Math, marks_English, marks_Science, marks_History,
marks_Geography, marks_Hindi, marks_Computer;

    int total_marks = 700;

    int marks_per_sub = 100;

    int marks_secured = 0;

    int sub_count = 7;

    double avg_marks = 0.0;

    double perc_marks = 0.0;

    // used parameterized constructor to initialize values to the non-static
variables

    public StudentReportCard (String n, String r, String g, String s, int
my_m, int my_e, int my_s, int my_ht, int my_g, int my_hn, int my_co)
    {
        name = n;

        rollNo = r;

        grade = g;

        section = s;

        marks_Math = my_m;

        marks_English = my_e;

        marks_Science = my_s;

        marks_History = my_ht;

        marks_Geography = my_g;

        marks_Hindi = my_hn;

        marks_Computer = my_co;

        marks_secured = marks_Math + marks_English + marks_Science +

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marks_History + marks_Geography + marks_Hindi + marks_Computer;

        avg_marks = marks_secured/sub_count;

        perc_marks = (double)(avg_marks/marks_per_sub)*100;
    }

    // method used for finding the grade of the student

    public void findGrade()
    {
        if(perc_marks >= 90 && perc_marks <= 100)
        {
            System.out.println("Grade: A");
        }
        if(perc_marks >= 80 && perc_marks <= 89)
        {
            System.out.println("Grade: B");
        }
        if(perc_marks >= 70 && perc_marks <= 79)
        {
            System.out.println("Grade: C");
        }
        if(perc_marks >= 60 && perc_marks <= 69)
        {
            System.out.println("Grade: D");
        }
    }

    // method used for displaying the student report card

    public void display()
    {
        System.out.println("-----
Student Report Card -----");

        System.out.println("-----
-----");

        System.out.println("-----
-----"+ "\n");

        System.out.println(" Student name: "+ name + "\t\t\t" + " Roll
No: "+ rollNo + "\n\n" + " Class: "+ grade + "\t\t\t\t" + " Section: " + section
+ "\n\n" + " Marks in Math: "+ marks_Math + "\n\n" + " Marks in English: "+
marks_English + "\n\n" + " Marks in Science: "+ marks_Science + "\n\n" + " Marks
in History: "+ marks_History + "\n\n" + " Marks in Geography: "+ marks_Geography
+ "\n\n" + " Marks in Hindi: "+ marks_Hindi + "\n\n" + " Marks in Computer: "+
marks_Computer);

        System.out.println("-----
-----");
    }

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        System.out.println(" Full Marks = " + total_marks + "\t\t\t" + "
Marks Secured = " + marks_secured + "\n\n" + " Percentage: "+ perc_marks);

        System.out.print("\n"+" ");

        // calling the findGrade() to display student's grade

        findGrade();

System.out.println("-----
-----");

System.out.println("-----
-----");

System.out.println("-----
-----");
    }

    public static void main(String[] args) {

        // Taking input from the user

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter your name: ");

        String my_name = sc.nextLine();

        System.out.println("Enter your roll no: ");

        String my_rollno = sc.nextLine();

        System.out.println("Enter your class: ");

        String my_class = sc.nextLine();

        System.out.println("Enter your section: ");

        String my_sec = sc.next();

        System.out.println("Enter your mark in Math: ");

        int my_m = sc.nextInt();

        System.out.println("Enter your mark in English: ");

        int my_e = sc.nextInt();

        System.out.println("Enter your mark in Science: ");

        int my_s = sc.nextInt();

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        System.out.println("Enter your mark in History: ");

        int my_ht = sc.nextInt();

        System.out.println("Enter your mark in Geography: ");

        int my_g = sc.nextInt();

        System.out.println("Enter your mark in Hindi: ");

        int my_hn = sc.nextInt();

        System.out.println("Enter your mark in Computer: ");

        int my_co = sc.nextInt();

        // passing the local variables as argument to the Constructor

        StudentReportCard s = new StudentReportCard(my_name, my_rollno,
my_class, my_sec, my_m, my_e, my_s, my_ht, my_g, my_hn, my_co);

        //      s.getValues(my_name, my_rollno, my_class, my_sec, my_m, my_e,
my_s, my_ht, my_g, my_hn, my_co);

        // printing the final report card

        s.display();

    }

}
```