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Users > Admin > Downloads > .\Sgpa (2).java > Java > 14 Student > 13 gradepoints(int marks)
import java.util.Scanner;
class Student
{
    String usn,name;
    int[] credits,marks;
    void AcceptDetails()
    {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter USN:");
        usn= sc.next();
        System.out.println("Enter the name of student:");
        name= sc.next();
        credits= new int[4];
        marks= new int[4];
        System.out.println("Enter details of credits and marks in order for 4 subjects:");
        for(int i=0;i<4;i++)
        {
            System.out.println("Enter credits for subject" + (i+1)+":");
            credits[i]=sc.nextInt();
            System.out.println("Enter marks for "+ (i+1)+ ":");
            marks[i]=sc.nextInt();
        }
    }
    void Display()
    {
        System.out.println("STUDENT DETAILS");
        System.out.println("USN:"+ usn);
        System.out.println("NAME:"+ name);
        for (int i=0;i<4;i++)
        {
            System.out.println("Subject "+ (i+1)+ " CREDITS:" + credits[i]+ ",MARKS: " + marks[i]);
        }
    }
    double calc()
    {
        int totalCredits=0;
        double totalGradePoints=0;
        for(int i=0;i<4;i++)
        {
            totalCredits+= credits[i];
            totalGradePoints+= gradepoints(marks[i])*credits[i];
        }
        return totalGradePoints/totalCredits;
    }
    int gradepoints(int marks)
    {
        if(marks>=90) return 10;
        else if(marks>=80) return 9;
        else if(marks>=70) return 8;
        else if(marks>=60) return 7;
        else if(marks>=50) return 6;
        else if(marks>=40) return 5;
        else return 0;
    }
}
class Sgpa
{
    Run | Debug | Run main | Debug main
    public static void main(String[] a)
    {
        Scanner sc= new Scanner(System.in);
        System.out.println("Name:SUDHIR UPADHAYA");
        System.out.println("USN = 1BF24C5304");
        System.out.println("Enter the number of students: ");
        int numstudent= sc.nextInt();

        Student student[]=new Student[numstudent];
        for (int i=0;i< numstudent;i++)
        {
            student[i]=new Student();
            student[i].AcceptDetails();
            student[i].Display();
            System.out.println("\nSGPA: "+ student[i].calc());
        }
    }
}

```

```
Sudhir Upadhaya
1BF24CS304
Enter the number of students:
2
Enter USN:1bf24cs304
Enter the name of student:
surajrastogi
Enter details of credits and marks in order for 4 subjects:
Enter credits for subject1:
3
Enter marks for 1:
95
Enter credits for subject2:
4
Enter marks for 2:
96
Enter credits for subject3:
4
Enter marks for 3:
95
Enter credits for subject4:
3
Enter marks for 4:
88
Enter credits for subject5:
3
Enter marks for 5:
87
Enter credits for subject6:
4
Enter marks for 6:
89
Enter credits for subject7:
4
Enter marks for 7:
90
STUDENT DETAILS
USN:1bf24cs304
NAME:surajrastogi
Subject 1- CREDITS:3,MARKS: 95
Subject 2- CREDITS:4,MARKS: 96
Subject 3- CREDITS:4,MARKS: 95
Subject 4- CREDITS:3,MARKS: 88
Subject 5- CREDITS:3,MARKS: 87
Subject 6- CREDITS:4,MARKS: 89
Subject 7- CREDITS:4,MARKS: 90
SGPA: 9.6
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```
Enter USN:1bf24cs303
Enter the name of student:
karanyadav
Enter details of credits and marks in order for 4 subjects:
Enter credits for subject1:
3
Enter marks for 1:
88
Enter credits for subject2:
4
Enter marks for 2:
88
Enter credits for subject3:
4
Enter marks for 3:
90
Enter credits for subject4:
4
Enter marks for 4:
94
Enter credits for subject5:
4
Enter marks for 5:
95
Enter credits for subject6:
4
Enter marks for 6:
96
Enter credits for subject7:
4
Enter marks for 7:
80
STUDENT DETAILS
USN:1bf24cs303
NAME:karanyadav
Subject 1- CREDITS:3,MARKS: 88
Subject 2- CREDITS:4,MARKS: 88
Subject 3- CREDITS:4,MARKS: 90
Subject 4- CREDITS:4,MARKS: 94
Subject 5- CREDITS:4,MARKS: 95
Subject 6- CREDITS:4,MARKS: 96
Subject 7- CREDITS:4,MARKS: 80

SGPA: 9.592592592592593
```