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import java.util.Scanner;
class Student
{
    String usn,name;
    double cgpa;
    int credits[];
    double marks[];

    void getData()
    {
        Scanner ss=new Scanner(System.in);
        System.out.println("Enter the Name and USN of student
respectively");
        name=ss.next();
        usn=ss.next();
        System.out.println("Enter the number of Subjects:");
        int n=ss.nextInt();
        credits= new int[n];
        marks= new double[n];
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter the number "+(i+1)+" subject marks and
credit respectively");
            marks[i]=ss.nextDouble();
            credits[i]=ss.nextInt();
        }
    }
    void cal_cgpa()
    {
        double sum=0.0;
        for(int i=0;i<marks.length; i++)
        {
            if(marks[i]>=90 && marks[i]<=100)
            {
                sum+=10*credits[i];
            }
            else if(marks[i]>=80 && marks[i]<90)
            {
                sum+=9*credits[i];
            }
            else if(marks[i]>=70 && marks[i]<80)
            {

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        sum+=8*credits[i];
    }
    else if(marks[i]>=60 && marks[i]<70)
    {
        sum+=7*credits[i];
    }
    else if(marks[i]>=50 && marks[i]<60)
    {
        sum+=6*credits[i];
    }
    else if(marks[i]>=40 && marks[i]<50)
    {
        sum+=5*credits[i];
    }
    else if(marks[i]<40)
    {
        sum+=0;
    }
}
int credit_sum=0;
for(int i=0;i<credits.length; i++)
{
    credit_sum+=credits[i];
}
cgpa=(double)sum/credit_sum;
}
void printData()
{
    System.out.println("Student Details:");
    System.out.println("Student name: "+name);
    System.out.println("Student USN: "+usn);
    System.out.println("Student CGPA: "+cgpa);
}
}
class StudentMain
{
    public static void main(String args[])
    {
        Student s1=new Student();
        s1.getData();
        s1.cal_cgpa();
        s1.printData();
    }
}

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}  
}
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Desktop — -bash — 80x24  
Ishas-MacBook-Air:Desktop isha$ javac Lab2.java  
Ishas-MacBook-Air:Desktop isha$ java StudentMain  
Enter the Name and USN of student respectively  
Isha 1BM19EC057  
Enter the number of Subjects:  
5  
Enter the number 1 subject marks and credit respectively  
95 5  
Enter the number 2 subject marks and credit respectively  
94 4  
Enter the number 3 subject marks and credit respectively  
93 4  
Enter the number 4 subject marks and credit respectively  
87 4  
Enter the number 5 subject marks and credit respectively  
90 3  
Student Details:  
Student name: Isha  
Student USN: 1BM19EC057  
Student CGPA: 9.8  
Ishas-MacBook-Air:Desktop isha$
```