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1  import java.util.*;
2  class Student
3  {
4      private String USN;
5      private String name;
6      private int n;
7      private double SGPA = 0;
8      private int totalCredits = 0;
9      Scanner ss = new Scanner(System.in);
10
11     void Details()
12     {
13         System.out.println("Enter USN of the student");
14         USN = ss.nextLine();
15         System.out.println("Enter Name of the student");
16         name = ss.nextLine();
17         System.out.println("Enter no of subjects");
18         n = ss.nextInt();
19         int credits[] = new int[n];
20         double marks[] = new double[n];
21         System.out.println("Enter details of the subjects:");
22         for(int i=0;i<n;i++)
23         {
24             System.out.println("Enter credits allotted to the subject "+(i+1));
25             credits[i] = ss.nextInt();
26             System.out.println("Enter marks in the subject "+(i+1));
27             marks[i] = ss.nextInt();
28             Calculate(credits[i],marks[i],i);
29         }
30     }
31     void Calculate(int credit,double mark,int j)
32     {
33         totalCredits = totalCredits + credit;
34         if(mark>=90&&mark<=100)
35             SGPA = SGPA + (10*credit);
36         else if(mark>=80 && mark<=89)
37             SGPA = SGPA + (9*credit);
38         else if(mark>=70&&mark<=79)
39             SGPA = SGPA + (8*credit);
40         else if(mark>=60&&mark<=69)
41             SGPA = SGPA + (7*credit);
42         else if(mark>=50 && mark<=59)
43             SGPA = SGPA + (6*credit);
44         else if(mark>=40&&mark<=49)
45             SGPA = SGPA + (5*credit);
46         else
47             System.out.println("Failed in ubject "+(j+1));
48     }
49     void Display()
50     {
51         System.out.println("Details of the Student");
52         System.out.println("Name :"+name);
53         System.out.println("USN: "+USN);
54         System.out.println("SGPA of student "+(SGPA/totalCredits));
55     }
56 }
57 class Main
58 {
59     public static void main(String args[])
60     {
61         Student s1 = new Student();
62         s1.Details();
63         s1.Display();
64     }
65 }

```