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quadpractice.java | sumoddeven.java | sign.java | bill.java | average.java | Plmain.java | Bk.java | sgpa.java

```java
import java.util.*;
class Student
{
    private String USN;
    private String name;
    private int n;
    private double SGPA = 0;
    private int totalCredits = 0;
    Scanner ss = new Scanner(System.in);
void Details()
    {
    System.out.println("Enter USN of the student");
    USN = ss.nextLine();
    System.out.println("Enter Name of the student");
    name = ss.nextLine();
    System.out.println("Enter number of subjects");
    n = ss.nextInt();
    int credits[] = new int[n];
    double marks[] = new double[n];
    System.out.println("Enter details of the subjects:");
    for(int i=0;i<n;i++)
    {
      System.out.println("Enter credits allotted to the subject "+(i+1));
        credits[i] = ss.nextInt();
      System.out.println("Enter marks in the subject "+(i+1));
      marks[i] = ss.nextInt();
      Calculate(credits[i],marks[i],i);
    }
    }
void Calculate(int credit,double mark,int j)
    {
        totalCredits = totalCredits + credit;
        if(mark>=90&&mark<=100)
          SGPA = SGPA + (10*credit);
        else if(mark>=80 && mark<=89)
          SGPA = SGPA + (9*credit);
        else if(mark>=70&&mark<=79)
          SGPA = SGPA + (8*credit);
        else if(mark>=60&&mark<=69)
          SGPA = SGPA + (7*credit);
        else if(mark>=50 && mark<=59)
          SGPA = SGPA + (6*credit);
        else if(mark>=40&&mark<=49)
```

```java
        for(int i=0;i<n;i++)
        {
          System.out.println("Enter credits allotted to the subject "+(i+1));
            credits[i] = ss.nextInt();
          System.out.println("Enter marks in the subject "+(i+1));
          marks[i] = ss.nextInt();
          Calculate(credits[i],marks[i],i);
        }
        }
  void Calculate(int credit,double mark,int j)
        {
          totalCredits = totalCredits + credit;
          if(mark>=90&&mark<=100)
            SGPA = SGPA + (10*credit);
          else if(mark>=80 && mark<=89)
            SGPA = SGPA + (9*credit);
          else if(mark>=70&&mark<=79)
            SGPA = SGPA + (8*credit);
          else if(mark>=60&&mark<=69)
            SGPA = SGPA + (7*credit);
          else if(mark>=50 && mark<=59)
            SGPA = SGPA + (6*credit);
          else if(mark>=40&&mark<=49)
            SGPA = SGPA + (5*credit);
          else
              System.out.println("Failed in subject "+(j+1));
        }
  void Display()
        {
          System.out.println("Details of the Student");
          System.out.println("Name :"+name);
          System.out.println("USN: "+USN);
          System.out.println("SGPA of student "+(SGPA/totalCredits));
        }
}
  class Main
        {
        public static void main(String args[])
        {
          Student s1 = new Student();
          s1.Details();
          s1.Display();
        }
```

```
Command Prompt
C:\>cd java lab

C:\java lab>javac sgpa.java

C:\java lab>java Main
Enter USN of the student
1234
Enter Name of the student
aaa
Enter number of subjects
3
Enter details of the subjects:
Enter credits allotted to the subject 1
5
Enter marks in the subject 1
67
Enter credits allotted to the subject 2
5
Enter marks in the subject 2
45
Enter credits allotted to the subject 3
5
Enter marks in the subject 3
89
Details of the Student
Name :aaa
USN: 1234
SGPA of student 7.0

C:\java lab>
```