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Lab Program:

Q Develop a Java program, class Student members \rightarrow usn, name, an array credits and array marks. Methods to accept, display details and method to calculate SGPA of student.

```
A) import java.util.Scanner();  
class Student  
{  
    String name;  
    String usn;  
    int sum = 0, n;  
    double sgpa;  
    int[] credits, score;  
    double[] marks;  
    void getData()  
    {  
        Scanner ss = new Scanner(System.in);  
        System.out.println("enter name, usn, no. of subjects students");  
        name = ss.next();  
        usn = ss.next();  
        n = ss.nextInt();  
        credits = new int[n];  
        marks = new double[n];  
        score = new int[n];  
        int i;  
        for(i=0; i<n; i++)  
        {
```

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System.out.println("enter credits and marks for subjects" + (i+1));
credits[i] = ss.nextInt();
System.out.println("enter marks[i] = ss.nextDouble();");
if (marks[i] >= 90)
    score[i] = 10;
else if (marks[i] >= 80 if marks[i] < 90)
    score[i] = 9;
else if (marks[i] >= 70 if marks[i] < 80)
    score[i] = 8;
else if (marks[i] >= 60 if marks[i] < 70)
    score[i] = 7;
else if (marks[i] >= 50 if marks[i] < 60)
    score[i] = 6;
else if (marks[i] >= 40 if marks[i] < 50)
    score[i] = 5;
else score[i] = 4;
sum = sum + credits[i];
}

void calc (int[] credits, int score[], int sum)
{
    int i;
    double sgpa, total = 0.0;
    for (i=0; i<n; i++)
        total = total + credits[i] * score[i];

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    sgpa = total / sum;
}

void printdata()
{
    System.out.println("name = " + name);
    System.out.println("usn = " + usn);
    calc(credits, score, sum);
    System.out.printf("sgpa = %.2f", sgpa);
}

}

class std
{
    public static void main (String args[])
    {
        student s1 = new student();
        s1.getdata();
        s1.printdata();
    }
}

```