

PROGRAM: STUDENT DETAILS: CALCULATE SGPA

CODE:

```
import java.util.*;
class Student
{
    private String USN;
    private String name;
    private int n;
    private double GP = 0;
    private int totCredits = 0;
    Scanner in = new Scanner(System.in);

    void Details()
    {
        System.out.println("Enter the USN of the student");
        USN = in.nextLine();
        System.out.println("Enter the name of the student");
        name = in.nextLine();
        System.out.println("Enter the no of subjects");
        n = in.nextInt();
        int credits[] = new int[n];
        double marks[] = new double[n];
        System.out.println("Enter the details of the subjects:");
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter the credits allotted to the subject "+(i+1));
            credits[i] = in.nextInt();
            System.out.println("Enter the marks of the subject "+(i+1));
            marks[i] = in.nextInt();
            Calculate(credits[i],marks[i]);
        }
    }
    void Calculate(int credit,double mark)
    {
        totCredits = totCredits + credit;
        if(mark>=90&&mark<=100)
            GP = GP + (10*credit);
        else if(mark>=80 && mark<=89)
            GP = GP + (9*credit);
        else if(mark>=70&&mark<=79)
            GP = GP + (8*credit);
        else if(mark>=60&&mark<=69)
            GP = GP + (7*credit);
        else if(mark>=50 && mark<=59)
            GP = GP + (6*credit);
        else if(mark>=40&&mark<=49)
            GP = GP + (5*credit);
        else
            GP = GP;
    }
    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 "+(GP/totCredits));
    }
}
class StudentMain
{
    public static void main(String []args)
    {
        Student s1 = new Student();
        s1.Details();
        s1.Display();
    }
}

```

OUTPUT:

```

Enter the USN of the student
1BM19CS073
Enter the name of the student
KIRAN M K
Enter the no of subjects
5
Enter the details of the subjects:
Enter the credits allotted to the subject 1
5
Enter the marks of the subject 1
89
Enter the credits allotted to the subject 2
4
Enter the marks of the subject 2
90
Enter the credits allotted to the subject 3
4
Enter the marks of the subject 3
92
Enter the credits allotted to the subject 4
4
Enter the marks of the subject 4
89
Enter the credits allotted to the subject 5
3
Enter the marks of the subject 5
88
Details of the student
Name :KIRAN M K
USN: 1BM19CS073
SGPA of student 9.4

```