

```

import java.util.*;
class Student
{
    private String USN;
    private String name;
    private int n;
    private double sgpa=0;
    private int total credits=0;
    Scanner ss= new Scanner(System.in);

```

```

void details()

```

```

{
    System.out.println("Enter the USN of the student");
    USN = ss.nextLine();
    System.out.println("Enter the name of the student");
    name = ss.nextLine();
    System.out.println("Enter the no. of sub subjects");
    n = ss.nextInt();
    int credits[] = new int[n];
    double marks = new double[n];
    System.out.println("Enter the details of subjects:");
    for(i=0; i<n; i++)
    {
        System.out.println("Enter the credits allotted to the subject" + (i+1));
        credits[i] = ss.nextInt();
        System.out.println("Enter the marks of the subject" + (i+1));
        marks[i] = ss.nextInt();
        calculate(credits[i], marks[i]);
    }
}

```

```

void calculate (int credit, double mark, int j)
{
    total credits = total credits + credit;
    if (mark >= 90 && mark <= 100)
        SGPA = SGPA + (10 * credits);
    else if (mark >= 80 && mark <= 89)
        SGPA = SGPA + (9 * credits);
    else if (mark >= 70 && mark <= 79)
        SGPA = SGPA + (8 * credits);
    else if (mark >= 60 && mark <= 69)
        SGPA = SGPA + (7 * credits);
    else if (mark >= 50 && mark <= 59)
        SGPA = SGPA + (6 * credits);
    else if (mark >= 40 && mark <= 49)
        SGPA = SGPA + (5 * credits);
    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 / Total credits));
}

```

```

}
class Main

```

```

{
    public static void main (String args[])
    {
        Student s1 = new Student();
        s1.details();
        s1.Display();
    }
}

```