

```
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 USN of the student");  
    USN = ss.nextLine();  
    System.out.println("Enter the name of student");  
    name = ss.nextLine();  
    System.out.println("Enter the no. of subjects");  
    n = ss.nextInt();
```

```
    int credits[] = new int[n];  
    double marks[] = new double[n];  
    System.out.println("Enter details of the subject :");  
    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));  
    mark[i] = ss.nextDouble();  
    Calculate(credits[i], marks[i], i);  
}
```

```
void Calculate (int credit, double mark, int i)
```

```

total Credits = 100
if (marks >= 90 && marks < 100)
    SGPA = SGPA + (10 * credits);
else if (marks >= 80 && marks < 90)
    SGPA = SGPA + (9 * credits);
else if (marks >= 70 && marks < 80)
    SGPA = SGPA + (8 * credits);
else if (marks >= 60 && marks < 70)
    SGPA = SGPA + (7 * credits);
else if (marks >= 50 && marks < 60)
    SGPA = SGPA + (6 * credits);
else if (marks >= 40 && marks < 50)
    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 / totalCredits));
}

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

```