```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 no 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;
```

```java
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();
}
}
```

```
C:\Users\Sanny\Desktop\Java Programs>javac Main.java

C:\Users\Sanny\Desktop\Java Programs>java Main
Enter USN of the student
1BM19CS143
Enter Name of the student
Sannidhi Kasturi
Enter no of subjects
3
Enter details of the subjects:
Enter credits allotted to the subject 1
3
Enter marks in the subject 1
80
Enter credits allotted to the subject 2
4
Enter marks in the subject 2
90
Enter credits allotted to the subject 3
5
Enter marks in the subject 3
96
Details of the Student
Name :Sannidhi Kasturi
USN: 1BM19CS143
SGPA of student 9.75

C:\Users\Sanny\Desktop\Java Programs>
```