

```
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 "+(i+1));
```

```
            marks[i] = ss.nextInt();
```

```

    Calculate (credits[i], marks[i], i);
}
}

void Calculate (int credit, double mark, int j)
{
    totalCredits = totalCredits + credit;
    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 + (7 * credit);
    else if (mark >= 60 && mark <= 69)
        SGPA = SGPA + (6 * credit);
    else if (mark >= 50 && mark <= 59)
        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));
}

```

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


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```
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;
        if(mark>=90&&mark<=100)
            SGPA = SGPA + (10*credit);
        else if(mark>=80 && mark<=89)
```



```
        Calculate(credits[i],marks[i],i);
    }
}
void Calculate(int credit,double mark,int j)
{
    totalCredits = totalCredits + credit;
    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));
}

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



```
Microsoft Windows [Version 6.3.9600]
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C:\Users\user2>cd documents
C:\Users\user2\Documents>cd java
C:\Users\user2\Documents\JAVA>cd work space
C:\Users\user2\Documents\JAVA\WORK SPACE>javac Student1.java
C:\Users\user2\Documents\JAVA\WORK SPACE>java Student
Enter USN of the student
1BM19CS041
Enter Name of the student
Darshan
Enter no of subjects
3
Enter details of the subjects:
Enter credits allotted to the subject 1
3
Enter marks in the subject 1
67
Enter credits allotted to the subject 2
3
Enter marks in the subject 2
87
Enter credits allotted to the subject 3
5
Enter marks in the subject 3
99
Details of the Student
Name :Darshan
USN: 1BM19CS041
SGPA of student 8.909090909090909
C:\Users\user2\Documents\JAVA\WORK SPACE>
```