```java
import java.util.*;
class student
{
prvte String usn, name;
double credits [];
double marks [], sgpa;
int size;
Scanner sc = new Scanner (System.in);
student()
{
System.out.println ("Enter no of subjects");
size = sc.nextInt()
credits = new double [size];
marks = new marks [size];
usn = " ";
name = " ";
}
void accept ()
{
for (int i=0; i< size; i++)
{
System.out.println ("Enter marks in sub " +(i+1));
mark [i] = sc.nextDouble();
System.out.println (" Enter name of student");
name = sc.next ();
System.out.println("Enter usn of student");
usn = sc.next();
for (int i=0; i< size; i++)
{
System.out.println ("Enter marks obtained and
                            credits of sub " + (i+1));
marks [i] = sc.nextDouble();
credits[i] = sc.nextDouble ();
```

```java
        }
    }
    void display ()
    {
        System.out.println ("Name : " + name);
        System.out.println ("usn : " + usn);
        System.out.println ("Marks obtained");
        for (int i=0; i< size; i++)
            System.out.println ("Sub " + (i+1) + " : " + ...);
        System.out.println ("sgpa : " + sgpa);
    }
    void calc ()
    {
        for (int i=0; i< size; i++)
        {
            double sum=0, total=0;
            for (int i=0; i< size ; i++)
            {
                sum = sum + credits [i];
                total = total + ...
                if ( marks >=90 && marks < 100)
                    total = total + ( max 10 * credits [i]);
                else if (marks >=80 && marks < 90)
                    total = total + ( 9 * credits[i]);
                else if (marks >= 70 && marks < 80)
                    total = total + (8 * credits [i]);
                else if (marks >=60 && marks < 70)
                    total = total + (7 * credits[i]);
                else if (marks >=50 && marks < 60)
                    total = total + (6 * credits [i]);
                else if (marks >= 40 && marks < 50)
                    total = total + ( 5 * credits [i]);
                else
                    total = total + ( 4 * credits[i]);
            }
```

```java
        sgpa = total/sum;
    }
}


class student1
{
    public static void main (String args[])
    {

        Student s = new student();
        s.accept();
        s.calc();
        s.display();
    }
}
```