```java
* import java.util.*;
class student {
    private string usn;
    private string name;
    private int credits[];
    private int marks[];
    private int n;
    void accept()
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter student details");
        System.out.println("usn:");
        usn=s.next();
        System.out.println("Name:");
        name=s.next();
        System.out.println("Enter credits and marks
        attained by the student in each subject");
        for(int i=0; i<n; i++)
        {
            credits[i]=s.nextInt();
            marks[i]=s.nextInt();
        }
    }
    void display()
    {
```

```java
System.out.println("Student details:");
System.out.println("USN:"+usn);
System.out.println("Name:"+name);
System.out.println("Marks in each subject:");
for(int i=0;i<n;i++)
{
    System.out.println("Subject "+(i+1)+":"+marks[i]);
}
}
double calculate()
{
    int tcp=0,tc=0;
    for(int i=0;i<n;i++)
    {
        tc=tc+credits[i];
        if(marks[i]>=50)
        {
            tcp=tcp+((marks[i]/10+5)*credits[i]);
        }
        else if(marks[i]>=40 && marks[i]<50)
        {
            tcp=tcp+(4*credits[i]);
        }
```

```java
return (double) tcp/tc;
}
}
class StudentMain
{
Public static void main (string ss[]){
Student s1= new student ();
s1.accept ();
s1.display ();
System.oct.println ("SGPA :" +s1.calculate
}
}
```