```
C:\Users\Surendra\Desktop>java StudentMain
Enter student details
USN:
01
Name:
priya
Enter the number of subjects:
3
Enter credits and marks attained by the student in each
4
78
3
89
5
88
Student details:
USN:01
Name:priya
Marks in each subject:
Subject 1:78
Subject 2:89
Subject 3:88
SGPA: 8.666666666666666

C:\Users\Surendra\Desktop>
```

```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 the number of subjects:");
        n=s.nextInt();
        credits=new int[n];
        marks=new int[n];
        System.out.println("Enter credits and marks attained by the student in each
        for(int i=0;i<n;i++)
        {
            credits[i]=s.nextInt();
            marks[i]=s.nextInt();
        }
    }
    void display()
    {
        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++)
        {
```

```java
        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)+1)*credits[i]);
            }
            else if(marks[i]>=40 && marks[i]<50)
            {
                tcp=tcp+(4*credits[i]);
            }
        }
        return (double)tcp/tc;
    }
}
class StudentMain
{
    public static void main(String ss[]) {
        Student s1=new Student();
        s1.accept();
        s1.display();
        System.out.println(    +s1.calculate());
    }
}
```