```
import java.util.*;
class Student {
        private String usn;
        private String name;
                int cred[];
  private
        private int marks[];
        private int n;
        void accept()
                Scanner s=new Scanner(System.in);
                System.out.println("Enter student details");
                System.out.println("USN of the student:");
                usn=s.next();
                System.out.println("Name of student:");
                name=s.next();
                System.out.println("Enter the number of subjects:");
                n=s.nextInt();
                cred=new int[n];
                marks=new int[n];
                System.out.println("Enter credits and marks attained by the student in each
subject(out of 100)");
                for(int i=0;i<n;i++)</pre>
                {
                        cred[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++)</pre>
                        System.out.println("Subject "+(i+1)+":"+marks[i]);
                }
        double calculate()
                int tcp=0,tc=0;
                for(int i=0;i<n;i++)
                {
                        tc=tc+cred[i];
                        if(marks[i]>=50)
                        tcp=tcp+(((marks[i]/10)+1)*cred[i]);
                        else if(marks[i]>=40 && marks[i]<50)
```

```
tcp=tcp+(4*cred[i]);
}
return (double)tcp/tc;
}

class Main
{

public static void main(String ss[]) {
    Student s1=new Student();
    s1.accept();
    s1.display();
    System.out.println("SGPA: "+s1.calculate());
}
```

```
Enter student details
USN of the student:
1BM19CS088
Name of student:
PARJANYA
Enter the number of subjects:
Enter credits and marks attained by the student in each subject(out of 100)
90
87
77
Student details:
USN:1BM19CS088
Name: PARJANYA
Marks in each subject:
Subject 1:90
Subject 2:87
Subject 3:77
Subject 4:67
SGPA: 8.375
...Program finished with exit code 0
Press ENTER to exit console.
```