

```

1  import java.util.*;
2  class student {
3      private String usn;
4      private String name;
5      private int credits[];
6      private int marks[];
7      private int n;
8
9      void accept()
10     {
11         Scanner s=new Scanner(System.in);
12         System.out.println("Enter student details");
13         System.out.println("USN:");
14         usn=s.next();
15         System.out.println("Name:");
16         name=s.next();
17         System.out.println("Enter the number of subjects:");
18         n=s.nextInt();
19         credits=new int[n];
20         marks=new int[n];
21         System.out.println("Enter credits and marks attained by the student in each subject");
22         for(int i=0;i<n;i++)
23         {
24             credits[i]=s.nextInt();
25             marks[i]=s.nextInt();
26         }
27     }
28     void display()
29     {
30         System.out.println("student details:");
31         System.out.println("USN:"+usn);
32         System.out.println("Name:"+name);
33         System.out.println("Marks in each subject:");

```

```

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11         Scanner s=new Scanner(System.in);
12         System.out.println("Enter student details");
13         System.out.println("USN:");
14         usn=s.next();
15         System.out.println("Name:");
16         name=s.next();
17         System.out.println("Enter the number of subjects:");
18         n=s.nextInt();
19         credits=new int[n];
20         marks=new int[n];
21         System.out.println("Enter credits and marks attained by the student in each subject");
22         for(int i=0;i<n;i++)
23         {
24             credits[i]=s.nextInt();
25             marks[i]=s.nextInt();
26         }
27     }
28     void display()
29     {
30         System.out.println("student details:");
31         System.out.println("USN:"+usn);
32         System.out.println("Name:"+name);
33         System.out.println("Marks in each subject:");
34         for(int i=0;i<n;i++)

```

```

}
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++)
    {
        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]>=40)
        {
            tcp=tcp+(((marks[i]/10)+1)*credits[i]);
        }
    }
    return (double)tcp/tc;
}

class studentMain
{
    public static void main(String[] args) {
        student s1=new student();
        s1.accept();
        s1.display();
        System.out.println("SGPA: "+s1.calculate());
    }
}

```



```
at studentMain.accept(student.java:24)
at studentMain.main(student.java:58)

C:\Users\SAI RAMAKRISHNA\Desktop>javac student.java
C:\Users\SAI RAMAKRISHNA\Desktop>
C:\Users\SAI RAMAKRISHNA\Desktop>java studentMain
Enter student details
USN:
12d
Name:
wd
Enter the number of subjects:
5
Enter credits and marks attained by the student in each subject
4 69
5 89
3 65
2 97
4 99
student details:
USN:12d
Name:wd
Marks in each subject:
Subject 1:69
Subject 2:89
Subject 3:65
Subject 4:97
Subject 5:99
SGPA: 8.555555555555555
C:\Users\SAI RAMAKRISHNA\Desktop>
```