```
import java.util.Scanner;
 3
      class Student
 4
    □ {
 5
          private String usn, name;
 6
          private int[] credits = new int[5];
 7
          private int[] marks = new int[5];
 8
          private int[] grade = new int[5];
 9
10
           //Accepts information from the user
11
          void accept()
12
           {
13
               Scanner sc = new Scanner (System.in);
               System.out.print("Enter your Name: ");
14
15
               this.name = sc.nextLine();
16
17
               System.out.print("Enter your USN: ");
18
               this.usn = sc.next();
19
               for(int i=0;i<credits.length;i++)</pre>
21
                    System.out.print("Enter marks in Subject " + (i+1) + ": ");
23
                    this.marks[i] = sc.nextInt();
24
25
                    System.out.print("Enter credits of Subject " + (i+1) + ": ");
26
                    this.credits[i] = sc.nextInt();
27
28
                    System.out.println();
29
               }
29
            }
30
         //displays information entered by the user
         void display()
34
             System.out.println("Here are your details:");
36
             System.out.println("USN: "+ usn);
             System.out.println("Name: "+name);
            for(int i=0;i<credits.length;i++)</pre>
39
                System.out.println("SUBJECT " + (i+1) + " CREDITS: " + credits[i] + " MARKS: " + marks[i]);
40
41
42
43
44
45
46
         //To calculate grade point of each of the marks entered by user
47
         void gradeCalc()
48
49
             for(int i=0;i<marks.length;i++)</pre>
51
                if(marks[i] >= 90)
                    grade[i] = 10;
53
                else if (marks[i] >= 80 && marks[i] < 90)
54
                    grade[i] = 9;
                else if (marks[i] >= 70 && marks[i] < 80)
56
                    grade[i] = 8;
57
                else if(marks[i] >= 60 && marks[i] < 70)</pre>
                    grade[i] = 7;
```

```
59
                 else if(marks[i] >= 50 && marks[i] < 60)</pre>
60
                      grade[i] = 6;
61
                  else if (marks[i] >= 40 && marks[i] < 50)
                      grade[i] = 4;
62
63
                 else
64
                      grade[i] = 0;
65
66
             }
67
68
69
         //To calculate sgpa, returns a double value
70
         double sqpa()
71
         {
72
             double sum = 0, totalCred = 0;
73
             gradeCalc();
74
75
             for(int i=0;i<credits.length;i++)</pre>
76 白
77
                 sum+= grade[i]*credits[i];
78
                 totalCred+= credits[i];
79
81
             return sum/totalCred;
82
83
84
85
         //main function
         public static void main (String args[])
86
87
         {
             Student std = new Student();
89
                 std.accept();
 90
                 std.display();
 91
                 double gradePt = std.sgpa();
                 System.out.println("Your sgpa is: " + gradePt);
 92
 93
      1
 94
```

```
C:\Users\Madhusudhan\Desktop\JavaProgs>java Student
Enter your Name: Medha Madhusudhan
Enter your USN: 1BM19EC074
Enter marks in Subject 1: 100
Enter credits of Subject 1: 4
Enter marks in Subject 2: 96
Enter credits of Subject 2: 5
Enter marks in Subject 3: 67
Enter credits of Subject 3: 5
Enter marks in Subject 4: 76
Enter credits of Subject 4: 4
Enter marks in Subject 5: 88
Enter credits of Subject 5: 3
Here are your details:
USN: 1BM19EC074
Name: Medha Madhusudhan
SUBJECT 1 CREDITS: 4 MARKS: 100
SUBJECT 2 CREDITS: 5 MARKS: 96
SUBJECT 3 CREDITS: 5 MARKS: 67
SUBJECT 4 CREDITS: 4 MARKS: 76
SUBJECT 5 CREDITS: 3 MARKS: 88
Your sgpa is: 8.761904761904763
```