```
•
```

```
import java.util.Scanner;
    class Student{
        String name;
        String USN;
 4
        int sem;
        void getData()
 8
 9
            Scanner ss=new Scanner(System.in);
10
            System.out.print("Enter the name of the student : ");
11
            name=ss.nextLine();
12
            System.out.print("Enter the USN of the student : ");
13
            USN=ss.nextLine();
14
            System.out.print("Enter the semester of the student : ");
15
            sem=ss.nextInt();
16
17
        void printData()
18
19
            System.out.println("Name : "+name);
20
            System.out.println("USN : "+USN);
21
            System.out.println("Semester : "+sem);
22
23
24
25
    class Test extends Student{
26
        int cie[] = new int[5];
27
        int credits[] = new int[5];
28
29
        void getciemarks()
30
31
            Scanner ss=new Scanner(System.in);
32
            System.out.println("Enter the credits and cie marks for : ");
33
            for(int i=0;i<5;i++)
34
                System.out.print("Subject "+(i+1)+" : ");
35
                credits[i]=ss.nextInt();
36
37
                cie[i]=ss.nextInt();
38
```

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Week7.java

☐ Line 1, Column 1 Tab Size: 4 Java

```
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     Week7.java
 <u> 3</u>8
 39
           int ciemarks(int i)
 40
 41
 42
               return cie[i];
 43
           int credits(int i)
 44
 45
 46
               return credits[i];
 47
 48
 49
 50
      class Exams extends Test{
 51
           int see[] = new int[5];
 52
 53
           void getseemarks()
 54
 55
               Scanner ss=new Scanner(System.in);
 56
               System.out.println("Enter the SEE marks for: ");
 57
               int i;
 58
               for(i=0;i<5;i++)
 59
 60
                    System.out.print("Subject "+(i+1)+" : ");
                    see[i]=ss.nextInt();
 61
 62
 63
           int seemarks(int i)
 64
 65
 66
               return see[i];
 67
 68
 69
      }
 70
 71
      class Result extends Exams{
 72
           double sgpa = 0;
 73
 74
          Result()
 75
               getciemarks():
```

```
\blacktriangleleft \blacktriangleright
     Week7.java
               getciemarks();
 76
 77
               getseemarks();
 78
 79
          void calculateresult()
 80
 81
               sgpa=0;
 82
               double temp=0:
 83
               double totalcredits=0:
 84
               for(int i=0;i<5;i++)
 85
 86
                   temp = 0;
 87
                   temp=temp+ciemarks(i);
 88
                   temp=temp+(seemarks(i)/2);
 89
                   totalcredits=totalcredits+credits(i);
 90
                   sqpa=sqpa+((temp*credits(i))/100);
 91
 92
               sgpa=(sgpa/totalcredits)*10;
 93
 94
          void printresult(int i)
 95
 96
               System.out.println("SGPA : "+sqpa);
 97
 98
 99
100
      public class Week7{
101
           public static void main(String args[])
102
103
               Scanner ss=new Scanner(System.in);
104
               System.out.print("Enter the number of students : ");
105
               int n=ss.nextInt();
106
               Student s[] = new Student[n];
107
               Result r[]=new Result[n];
108
               System.out.println("Enter the details for : ");
109
               for(int i=0;i<n;i++)</pre>
110
                   System.out.println("Student "+ (i+1) + " : ");
111
112
113
                   s[i] = new Student();
```

```
Week7.java
                  totalcredits=totalcredits+credits(i);
 89
 90
                  sgpa=sgpa+((temp*credits(i))/100);
 91
 92
             sgpa=(sgpa/totalcredits)*10;
 93
 94
         void printresult(int i)
 95
 96
             System.out.println("SGPA : "+sgpa);
 97
 98
 99
100
     public class Week7{
101
         public static void main(String args[])
102
103
             Scanner ss=new Scanner(System.in);
104
             System.out.print("Enter the number of students : ");
105
             int n=ss.nextInt();
             Student s[] = new Student[n];
106
107
             Result r[]=new Result[n];
108
             System.out.println("Enter the details for : ");
109
              for(int i=0;i<n;i++)</pre>
110
                  System.out.println("Student "+ (i+1) + " : ");
111
112
113
                  s[i] = new Student();
                 s[i].getData();
114
115
                  r[i]=new Result();
116
                  r[i].calculateresult();
117
118
             System.out.println("----Student Results----");
119
              for(int i=0;i<n;i++)</pre>
120
121
                  System.out.println("STUDENT "+(i+1));
122
                  s[i].printData();
123
                  r[i].printresult(i);
124
125
126
```

☐ Line 1, Column 1 Tab Size: 4 Java

```
[dhruvdubey@Dhruvs-MacBook-Air JavaLab % java Week7
Enter the number of students: 2
Enter the details for :
Student 1:
Enter the name of the student : Dhruv Dubey
Enter the USN of the student: 1BMCS1456
Enter the semester of the student : 3
Enter the credits and cie marks for :
Subject 1 : 5 44
Subject 2 : 4 47
Subject 3 : 4 36
Subject 4 : 4 49
Subject 5 : 3 38
Enter the SEE marks for:
Subject 1: 96
Subject 2:84
Subject 3:87
Subject 4: 78
Subject 5: 91
Student 2:
Enter the name of the student: Kartik Kumar
Enter the USN of the student: 1BMCS14574
Enter the semester of the student : 3
Enter the credits and cie marks for :
Subject 1 : 5 38
Subject 2 : 4 37
Subject 3 : 3 28
Subject 4 : 4 50
Subject 5 : 4 33
Enter the SEE marks for:
Subject 1:88
Subject 2: 76
Subject 3: 75
Subject 4: 92
Subject 5: 71
----Student Results----
STUDENT 1
Name: Dhruv Dubey
```

```
Subject 2 : 4 47
Subject 3 : 4 36
Subject 4 : 4 49
Subject 5 : 3 38
Enter the SEE marks for:
Subject 1: 96
Subject 2:84
Subject 3:87
Subject 4: 78
Subject 5: 91
Student 2:
Enter the name of the student: Kartik Kumar
Enter the USN of the student: 1BMCS14574
Enter the semester of the student: 3
Enter the credits and cie marks for :
Subject 1 : 5 38
Subject 2 : 4 37
Subject 3 : 3 28
Subject 4 : 4 50
Subject 5 : 4 33
Enter the SEE marks for:
Subject 1:88
Subject 2: 76
Subject 3: 75
Subject 4: 92
Subject 5: 71
-----Student Results-----
STUDENT 1
Name: Dhruv Dubey
USN : 1BMCS1456
Semester: 3
SGPA: 8.665
STUDENT 2
Name: Kartik Kumar
USN: 1BMCS14574
Semester: 3
SGPA: 7.805
dhruvdubey@Dhruvs-MacBook-Air JavaLab %
```