```
Main java
         char [] grade = new char[credits.length];
 41
 42 -
         public woid cal grade sgpa(int tot credits){
 43
 44
              int sum 0;
 45 -
              for(int i 0;i<credits.length;i++) {
                  double marks = cie marks[i] + (see marks[i] / 2.0);
 46
 47 -
                  if (marks >= 90) {
                      sum == credits[i] = 10;
 49
                      grade[i] = '5';
                  ) else if (marks >= 80 8% marks < 90) (
 51.
                      sum = credits[i] ;
 52.
                      grade[i] = 'A':
                  } else if (marks >= 70 && marks < 80) (
 54
                      sum credits[i] 8;
                      grade[i] = 'B';
 56 -
                  ) else if (marks >= 60 88 marks < 70) (
 57
                      sum + credits[i] ;
                      grade[i] = 'C';
                  ) also if (marks >= 50 && marks < 60)(
 60
                      sum == credits[i] = 6;
 61
                      grade[i] = 'D';
 62
 63
                 else if(marks>= 10 && marks<50) {
 64
                      sum == credits[i] * 5;
                      grade[i] = 'E':
                 elise (
                      sum == credits[i] * 0;
                      grade[i] F:
 71
 22
                    sum 1.0/tot_credits;
             5gpa
 73
         public woid display()
 75:
         €
                    .out.println("USN:"=usn);
 77.
                    .out.println("Name:" name);
 78
                    .out.println("SEM:"+sem);
 79
                    .out.println("Grades of each subject:");
 80
             for(int i=0;i<credits.length;i++)
 81
 82
                        .out.println("Subject "+(i+1)+":"-grade[i]);
A .
```

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Language Java ~ B D Main.java cout.println("Grades of each subject:"); 79: for(int i=0;i<credits.length;i++) .out.println("Subject "+(i+1)+":"+grade[i]); .out.println("SGPA:"*sgpa); class Main { public static void main(Steing args[]) { Scanner sc = new Scanner(S .out.print("Enter number of students:"); int n = sc.nextInt(); Result [] s = new Result[n]; int [] tot_credits = new int[n]; for(int i=0;i<n;i++) .out.println("-----Student "+(i+1)+"------"); .out.print("Enter usn:"); usn = sc.next(); .out.print("Enter name:"); name = sc.next(); .out.print("Enter sem:"); int sem sc.nextInt(); .out.print("Enter number of subjects:"); int n1 = sc.nextInt(); .out.println("Enter cie_marks:"); int [] cie marks = new int[n1]; for(int jod;jen1;j++) int marks1 = sc.nextInt(); cie marks[j] = marks1; .out.println("Enter credits:"); int [] credits = new int[n1]; int sum = 8; for(int j=0;j<n1;j++) int marks1 = sc.nextInt(); credits[j] = marks1; 120 sum = credits[j]; A . input

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```
Main java
                           name = sc.next();
                          .out.print("Enter sem:");
                     int sem sc.nextInt();
                          .out.print("Enter number of subjects:");
                     int n1 sc.nextInt();
                          .out.println("fater cie marks:");
  194
                     int [] cie_marks = new int[n1];
                     for(int j@;j(n1;j++)
                        int marks1 = sc.nextInt();
                        cie_marks[j] marks1;
  110
 112
                           .out.println("Enter credits:");
  113
                     int [] credits " new int[n1];
                     int sum = 0;
  115
                     for (int j=;j(n1;j+)
  116
                         int marks1 = sc.nextInt();
  118
                         credits[j] marks1;
  119
                         sum += credits[j];
  121
                     tot credits[i] sum;
  122
                           .out.println("Enter see marks:");
                     int [] see marks = new int[n1];
  124
                     for(int j 0;j(n1;j+)
  125
  126
                         int marks1 = sc.nextInt();
  127
                         see marks[j] marks1;
  128
                            new Result(usn,name,sem,cie_marks,credits,see_marks);
  131
                 for (int kal; ken; ker)
  133
                           .out.println("Details of Student "*(k+1)+":");
  135
                     s[k].cal_grade_sgpa(tot_credits[k]);
                     s[k].display();
  137
                 )
  139
              7
                                                                 input
```

```
v / 3
       Enter number of students:2
            --- Student 1----
       Enter usn: 1BM19CS33
       Enter name: AMBARISE
       Enter sem: 3
       Enter number of subjects:6
       Enter cie marka:
       200
       13
       44
       38
       49
       26
       Enter credits:
       2
       3
       4
       1
       2
       3
       Ester see marks:
       65
       H.
       96
       92
       AI.
       -----Student 2---
       Enter usn: 188418EC133
       Enter name: 7
       Enter semi4
       Enter number of subjects:4
       Enter die marke:
       42
       40
       43
       39
       Enter credits:
       3
       3
       2
utorial -
       Enter see marks:
```

```
Enter credits:
       3
       3
       2
       4
       Enter see marks:
       ØB
       94
       94
       70
       Details of Student 1:
       USN:18M19C533
       Name: AMBARTSH
       STEEL SECTION
       Grades of each subject:
     ( Subject 1:D
       Subject 2:B
       Subject 3:A
       Subject 4:A
       Subject 5:5
       Subject 6:C
       SGPA: 0.277777777777779
       Details of Student 2:
       USN:1HM18EC133
       Name : 7
       583424
       Grades of each subject:
       Subject 1:A
       Subject 2:5
        Subject 3:5
        Subject 4:B
        SGPA: 9.083333333333334
        ... Program finished with exit code 0
Futorial -
        Press ENTER to exit console.
```

Enter sem: 4

42 48 43

Enter cie marka:

Enter number of subjects:4

```
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```

```
æ
                              week7.sava
      import java.util.Scanner;
      class Player{
          private String name;
                 int matches_played;
          private double average;
           void setdata()
              Scanner xx new Scanner(System.in);
              System.out.print("Enter the name of the player : ");
              name=xx.next();
              xx.nextLine();
              System.out.print("Enter the number of matches played by the palyer : ");
 14
              matches_played_xx.nextInt();
          void setaverage(double x)
              average x;
 20
          int returnmatchesplayed()
              meturn matches played;
24
          void displayaverage()
              System.out.println("The name of the student is : "name);
              System.out.println("The average of the player is : "average);
      class batsman extends Player(
          private int runs_scored[];
          private int n;
          void setdata1()
              setdata():
              Scanner xx=new Scanner(System.in);
              n=returnmatchesplayed();
              runs_scored new int[n];
              System.out.println("Enter the runs scored : ");
              for(int i=0;i<n;i↔)
44
                  System.out.print("Enter the runs scored in "-(i-1) " match : ");
                  runs_scored[i]=xx.nextInt();
```

Line 1, Column 1

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```
4 b
                                week7.java
                     system-but-prints there is runs scored in the tyr whiten a
                    runs scored[i]=xx.nextInt();
 46
 47
 49
            void calculateaverage()
                double temp 0;
                for (int i 0;i n;i +)
                    temp=temp=runs_scored[i];
                temp temp returnmatchesplayed();
                setaverage(temp);
       class bowler natends Player{
           private int runs_scored[];
           private int n;
           void setdata1()
                setdata();
               Scanner xx new Scanner(System.in);
               n=returnmatchesplayed();
               runs_scoredinum int[n];
               System.out.println("Enter the runs given : ");
 71
                  (int i 0;i n;i )
                   System.out.print("Enter the runs given in " (i-1) " match : ");
                   runs_scored[i] xx.nextInt();
           void calculateaverage()
               double temp 0;
               for (int i=0;icn;i==)
                   temp temp runs_scored[i];
 83
 84
               temp=temp/returnmatchesplayed();
               setaverage(temp);
        sublic class week7
                         void main(String aras[1)
  Line 1, Column 1
```

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ile Edit Selection Find View Goto Tools Project Preferences Help

```
4 >
                                week/ java
  84
                temp=temp/returnmatchesplayed();
                setaverage(temp);
       )
       public class week?
           public static word main(String orgs | ))
 94
 95
                int n,m;
                Scanner KK=HHH Scanner(System.in);
               System.out.println("Enter the number of batsman : ");
 98
               n xx.nextInt();
 99
               System.out.println("Enter the number of bowlers : ");
100
               m xx.nextInt();
191
               batsman pl[]=new batsman[n];
102
               bowler p2[] mem bowler[m];
103
               System.out.println("Enter the details of the batsman : ");
184
105
               for(int i=0;i<n;i++)
196
               Ŧ.
                    p1[i]=mmm batsman();
108
                   pl[i].setdata1();
100
                    p1[i].calculateaverage();
110
111
               System.out.println("Enter the details of the bowlers : ");
112
                for(int i=0;i(m;i++)
113
               U
                   p2[i] new bowler();
2.14
115
                   p2[i].setdata1();
115
                   p2[i].calculateaverage();
117
118
               System.out.println("The details of the batsman are : ");
119
               for (int i=8; i n; i++)
120
121
                   pl[i].displayaverage();
122
               System.out.println("The details of the bowler are : ");
123
124
                 (int i=0; i m; i - )
125
126
                   p2[i].displayaverage();
127
           )
128
129
```

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C:\Users\anant\JAVA A>javac week7.java

```
C:\Users\anant\JAVA A>java week7
Enter the number of batsman :
Enter the number of bowlers :
Enter the details of the batsman :
Enter the name of the player : A
Enter the number of matches played by the palyer : 10
Enter the runs scored :
Enter the runs scored in 1 match : 12
Enter the runs scored in 2 match : 22
Enter the runs scored in 3 match : 50
Enter the runs scored in 4 match : 60
Enter the runs scored in 5 match : 100
Enter the runs scored in 6 match : 100
Enter the runs scored in 7 match : 02
Enter the runs scored in 8 match : 10
Enter the runs scored in 9 match : 0
Enter the runs scored in 10 match : 50
Enter the name of the player : B
Enter the number of matches played by the palyer : 2
Enter the runs scored :
Enter the runs scored in 1 match : 10
Enter the runs scored in 2 match : 98
Enter the name of the player : C
Enter the number of matches played by the palyer : 1
Enter the runs scored :
Enter the runs scored in 1 match : 52
Enter the name of the player : 0
Enter the number of matches played by the palyer : 0
Enter the runs scored :
Enter the name of the player : D
Enter the number of matches played by the palyer : 0
Enter the runs scored :
Enter the name of the player : E
Enter the number of matches played by the palyer : 3
Enter the runs scored :
Enter the runs scored in 1 match : 22
Enter the runs scored in 2 match : 55
Enter the runs scored in 3 match : 88
Enter the details of the bowlers :
Enter the name of the player : Z
Enter the number of matches played by the palyer : 2
Enter the runs given :
Enter the runs given in 1 match : 24
Enter the runs given in 2 match : 18
Enter the name of the player : X
```

Command Prompt Enter the runs scored in 3 match : 88 Enter the details of the bowlers : Enter the name of the player : Z Enter the number of matches played by the palyer : 2 Enter the runs given : Enter the runs given in 1 match : 24 Enter the runs given in 2 match : 18 Enter the name of the player : X Enter the number of matches played by the palyer : 1 Enter the runs given : Enter the runs given in 1 match : 50 Enter the name of the player : Y Enter the number of matches played by the palyer : 1 Enter the runs given : Enter the runs given in 1 match : 16 Enter the name of the player : W Enter the number of matches played by the palyer : 3 Enter the runs given : Enter the runs given in 1 match : 22 Enter the runs given in 2 match : 33 Enter the runs given in 3 match : 44 Enter the name of the player : V Enter the number of matches played by the palyer : θ Enter the runs given : The details of the batsman are : The name of the student is : A The average of the player is : 40.6 The name of the student is : B The average of the player is : The name of the student is : C The average of the player is : 52.0 The name of the student is : 0 The average of the player is : NaN The name of the student is : D The average of the player is : NaN The name of the student is : E The average of the player is : 55.0 The details of the howler are : The name of the student is : Z The average of the player is : 21.0 The name of the student is : X The average of the player is : The name of the student is : Y The average of the player is : The name of the student is : W The average of the player is : 33.0 The name of the student is : V The average of the player is : NaN