

CmdArray.java Pmain.java X

c:\Users> Appy > Desktop > java lab > Pmain.java

```
1  import java.util.Scanner;
2
3  abstract class PLAYER{
4      String name;
5      int matches_played;
6      double average;
7      abstract void cal_average(String name,int mp,int r);
8  }
9
10 class BATSMAN extends PLAYER{
11     int runs_scored;
12     void setRuns_Scored(int runs){
13         runs_scored = runs;
14     }
15
16     void cal_average(String playerName,int matchesPlayed, int runsScored){
17         name = playerName;
18         matches_played = matchesPlayed;
19         average = (double)runsScored/matchesPlayed;
20     }
21 }
22
23 class BOWLER extends PLAYER{
24     int runs_given;
25     void setRuns_Given(int runs){
26         runs_given = runs;
27     }
28
29     void cal_average(String playerName,int matchesPlayed, int runsGiven ){
30         name = playerName;
31         matches_played = matchesPlayed;
32         average = (double)runsGiven/matchesPlayed;
33 }
```

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```

35 }
36
37 public class Pmain{
38     public static void main(String[] args) {
39         int m,n,matches_played,runs;
40         String name;
41         Scanner sc = new Scanner(System.in);
42         System.out.println("Enter number of batsmen: ");
43         m = sc.nextInt();
44         System.out.println("Enter number of bowlers: ");
45         n = sc.nextInt();
46         if(m <= 0 || n<=0){
47             System.out.println("Enter only +ve values of m and n");
48             System.exit(1);
49         }
50
51         BATSMAN batsmen[] = new BATSMAN[m];
52         BOWLER bowlers[] = new BOWLER[n];
53
54         for(int i=0;i<batsmen.length;i++){
55             System.out.println("Enter name of bastman " + (i+1) + ": ");
56             name = sc.next();
57             System.out.println("Enter matches played of bastman " + (i+1) + ": ");
58             matches_played = sc.nextInt();
59             System.out.println("Enter runs scored: ");
60             runs = sc.nextInt();
61             batsmen[i] = new BATSMAN();
62             batsmen[i].cal_average(name, matches_played, runs);
63         }
64         for(int i=0;i<bowlers.length;i++){
65             System.out.println("Enter name of bowler " + (i+1) + ": ");
66             name = sc.next();
67             System.out.println("Enter matches played of bowler " + (i+1) + ": ");

```



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```
67     System.out.println("Enter matches played of bowler " + (i+1) + ": ");
68     matches_played = sc.nextInt();
69     System.out.println("Enter runs given: ");
70     runs = sc.nextInt();
71     bowlers[i] = new BOWLER();
72     bowlers[i].cal_average(name, matches_played, runs);
73 }
74 System.out.println("-----DETAILS OF BASTMEN-----");
75 for(int i=0;i<batsmen.length;i++){
76     System.out.format("%s has an average of %.2f\n",batsmen[i].name,batsmen[i].average);
77 }
78 System.out.println("-----DETAILS OF BOWLERS-----");
79 for(int i=0;i<batsmen.length;i++){
80     System.out.format("%s has an average of %.2f\n",bowlers[i].name,bowlers[i].average);
81 }
82
83
84 }
85 }
```

```
C:\Users\Apy\Desktop>cd java lab
C:\Users\Apy\Desktop\java lab>javac Pmain.java
C:\Users\Apy\Desktop\java lab>java Pmain
Enter number of batsmen:
2
Enter number of bowlers:
2
Enter name of bastman 1:
a
Enter matches played of bastman 1:
3
Enter runs scored:
200
Enter name of bastman 2:
b
Enter matches played of bastman 2:
4
Enter runs scored:
250
Enter name of bowler 1:
c
Enter matches played of bowler 1:
3
Enter runs given:
120
Enter name of bowler 2:
d
Enter matches played of bowler 2:
150
Enter runs given:
4000
-----DETAILS OF BASTMEN-----
a has an average of 66.67
b has an average of 62.50
-----DETAILS OF BOWLERS-----
c has an average of 40.00
d has an average of 26.67
C:\Users\Apy\Desktop\java lab>
```