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1  import java.util.Scanner;
2  abstract class Player
3  {
4      String name;
5      int matches_played;
6      double average;
7      abstract void cal_average(String x,int y,int z);
8  }
9  class Batsman extends Player
10 {
11     int runs_scored;
12     void cal_average(String a,int b,int c)
13     {
14         name=a;
15         matches_played=b;
16         runs_scored=c;
17         average=runs_scored/matches_played;
18         System.out.println("The average runs scored by player "+name+" is :"+average);
19     }
20 }
21 class Bowler extends Player
22 {
23     int runs_given;
24     void cal_average(String p,int q,int r)
25     {
26         name=p;
27         matches_played=q;
28         average=runs_given/matches_played;
29         System.out.println("The average runs given by player "+name+" is:"+average);
30     }
31 }
32 class PlayerMain
33 {
34     Run | Debug
35     public static void main(String args[])
36     {
37         int m,n,i;
38         Scanner xx=new Scanner(System.in);
39         System.out.println("Enter the no. of Batsman");
40         m=xx.nextInt();

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37 Scanner xx=new Scanner(System.in);
38 System.out.println("Enter the no. of Batsman");
39 m=xx.nextInt();
40 Batsman bt[]=new Batsman[m];
41 for(i=0;i<m;i++)
42 {
43     bt[i]=new Batsman();
44     System.out.println("Enter Details of Batsman"+(i+1)+ ":");
45     System.out.println("Enter player name:");
46     bt[i].name=xx.next();
47     System.out.println("Enter no. of matches played:");
48     bt[i].matches_played=xx.nextInt();
49     System.out.println("Enter runs scored by Batsman:");
50     bt[i].runs_scored=xx.nextInt();
51 }
52 for(i=0;i<m;i++)
53 {
54     bt[i].cal_average(bt[i].name ,bt[i].matches_played,bt[i].runs_scored);
55 }
56 System.out.println("Enter the no. of Bowler");
57 n=xx.nextInt();
58 Bowler bl[]=new Bowler[n];
59 for(i=0;i<n;i++)
60 {
61     bl[i]=new Bowler();
62     System.out.println("Enter Details of Bowler"+(i+1)+ ":");
63     System.out.println("Enter player name:");
64     bl[i].name=xx.next();
65     System.out.println("Enter no. of matches played:");
66     bl[i].matches_played=xx.nextInt();
67     System.out.println("Enter runs given by Bowler:");
68     bl[i].runs_given=xx.nextInt();
69 }
70 for(i=0;i<n;i++)
71 {
72     bl[i].cal_average(bl[i].name ,bl[i].matches_played,bl[i].runs_given);
73 }
74 }
75 }

```

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C:\Users\akki\Desktop\PROJECT WORK>java PlayerMain
Enter the no. of Batsman
2
Enter Details of Batsman1:
Enter player name:
Gyan
Enter no. of matches played:
7
Enter runs scored by Batsman:
146
Enter Details of Batsman2:
Enter player name:
Jhon
Enter no. of matches played:
4
Enter runs scored by Batsman:
96
The average runs scored by player Gyan is :20.0
The average runs scored by player Jhon is :24.0
Enter the no. of Bowler
2
Enter Details of Bowler1:
Enter player name:
Gem
Enter no. of matches played:
6
Enter runs given by Bowler:
178
Enter Details of Bowler2:
Enter player name:
Henry
Enter no. of matches played:
8
Enter runs given by Bowler:
169
The average runs given by player Gem is:29.0
The average runs given by player Henry is:21.0

C:\Users\akki\Desktop\PROJECT WORK>
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