



quad.java array4.java inheritance_1.java shape_area.java bank.java PALASM Agemain.java Empmain1.java Matrix.java CircledemoMain.java ActorMain.java CmdArray.java Prog2.java

```
1  import java.util.Scanner;
2  abstract class PLAYER{
3      String name;
4      int matches_played;
5      double average;
6      abstract void cal_average(String name,int mp,int r);
7  }
8
9  class BATSMAN extends PLAYER{
10     int runs_scored;
11     void setRuns_Scored(int runs){
12         runs_scored = runs;
13     }
14     void cal_average(String playerName,int matchesPlayed, int runsScored){
15         name = playerName;
16         matches_played = matchesPlayed;
17         average = (double)runsScored/matchesPlayed;
18     }
19 }
20
21 class BOWLER extends PLAYER{
22     int runs_given;
23     void setRuns_Given(int runs){
24         runs_given = runs;
25     }
26     void cal_average(String playerName,int matchesPlayed, int runsGiven ){
27         name = playerName;
28         matches_played = matchesPlayed;
29         average = (double)runsGiven/matchesPlayed;
30     }
31 }
32
33 public class Prog2 extends Exception{
34     public static void main(String[] args) {
35         int m,n,matches_played,runs;
36         String name;
37         Scanner sc = new Scanner(System.in);
38         System.out.println("Enter number of batsmen: ");
39         m = sc.nextInt();
40         System.out.println("Enter number of bowlers: ");
41         n = sc.nextInt();
```

```
*C:\java lab\Prog2.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
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37 Scanner sc = new Scanner(System.in);
38 System.out.println("Enter number of batsmen: ");
39 m = sc.nextInt();
40 System.out.println("Enter number of bowlers: ");
41 n = sc.nextInt();
42 if(m <= 0 || n<=0){
43     System.out.println("Enter only +ve values of m and n");
44     System.exit(1);
45 }
46 BATSMAN batsmen[] = new BATSMAN[m];
47 BOWLER bowlers[] = new BOWLER[n];
48 for(int i=0;i<batsmen.length;i++){
49     System.out.println("Enter name of batsman " + (i+1) + ": ");
50     name = sc.next();
51     System.out.println("Enter matches played by batsman " + (i+1) + ": ");
52     matches_played = sc.nextInt();
53     System.out.println("Enter runs scored: ");
54     runs = sc.nextInt();
55     batsmen[i] = new BATSMAN();
56     batsmen[i].cal_average(name, matches_played, runs);
57 }
58 for(int i=0;i<bowlers.length;i++){
59     System.out.println("Enter name of bowler " + (i+1) + ": ");
60     name = sc.next();
61     System.out.println("Enter matches played by bowler " + (i+1) + ": ");
62     matches_played = sc.nextInt();
63     System.out.println("Enter runs given: ");
64     runs = sc.nextInt();
65     bowlers[i] = new BOWLER();
66     bowlers[i].cal_average(name, matches_played, runs);
67 }
68 System.out.println("DETAILS OF BATSMEN \n");
69 for(int i=0;i<batsmen.length;i++){
70     System.out.format("%s has an average of %.2f\n",batsmen[i].name,batsmen[i].average);
71 }
72 System.out.println("DETAILS OF BOWLERS \n");
73 for(int i=0;i<bowlers.length;i++){
74     System.out.format("%s has an average of %.2f\n",bowlers[i].name,bowlers[i].average);
75 }
76 }
77 }
```

Command Prompt
Microsoft Windows [Version 10.0.18362.1016]
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C:\Users\arpit>cd..

C:\Users>cd..

C:\>cd java lab

C:\java lab>javac Prog2.java

C:\java lab>java Prog2

Enter number of batsmen:

2

Enter number of bowlers:

2

Enter name of batsman 1:

aaa

Enter matches played by batsman 1:

2

Enter runs scored:

10

Enter name of batsman 2:

bbb

Enter matches played by batsman 2:

2

Enter runs scored:

15

Enter name of bowler 1:

yyy

Enter matches played by bowler 1:

2

Enter runs given:

18

Enter name of bowler 2:

zzz

Enter matches played by bowler 2:

2

Enter runs given:

20

DETAILS OF BASTMEN

aaa has an average of 5.00

bbb has an average of 7.50

DETAILS OF BOWLERS

yyy has an average of 9.00

zzz has an average of 10.00