

```
import java.util.Scanner;
```

```
class PLAYER
```

```
{
```

```
    String name;
```

```
    int matches_played;
```

```
    double average;
```

```
    Scanner ss = new Scanner (System.in);
```

```
    void getDetails ()
```

```
{
```

```
    System.out.println("Enter the players details");
```

```
    System.out.println("Name:");
```

```
    name = ss.next();
```

```
    System.out.println("Matches played:");
```

```
    matches_played = ss.nextInt();
```

```
}
```

```
double calAverage (String name, int runs, int matches)
```

```
{
    average = (runs) / matches;
```

```
    System.out.println("The average runs of
```

```
" + name + " is: " + average);
```

```
    return average;
```

```
}
```

void print details ()

```
{  
    System.out.println("The player Details are:");  
    System.out.println("Name: " + name);  
    System.out.println("Matches played: " + matches -  
    System.out.println("Average: " + average);  
}
```

class BATSMAN extends player

```
{  
    int runs - scored;  
    double result;  
    void getruns()  
    {  
        getDetails();  
        System.out.println("Enter the runs scored:");  
        runs - scored = ss.nextInt();  
        result = cal - average (name, runs - scored,  
        matches - played);  
    }  
}
```

class Bowler extends Player

{

int runs - given;  
double result;

void getruns()

{

getDetails();

System.out.println("Enter the runs given: ");

runs - given = ss.nextInt();

result = calAverage(name, given runs - given,  
matches - played);

}

}

class PlayerMain

{

public static void main (String args[])

{

Scanner ss = new Scanner(System.in);

int n, m;

System.out.println("Enter the number of  
batman & bowlers:");

for (int i = 0; i < n; i++)

{



```
bt[i] = new BATSMAN();  
bt[i].getruns();
```

}

```
Bowler bw[] = new Bowler[m];  
for (int i = 0; i < m; i++)
```

{

```
bw[i] = new Bowler();  
bw[i].getruns();
```

}

```
System.out.println("\n\nThe Details of  
Batsman are: \n");
```

```
for (int i = 0; i < n; i++)
```

```
bt[i].printdetails();
```

```
System.out.println("\n\nThe Details of  
the Bowlers are: \n");
```

```
for (int i = 0; i < m; i++)
```

```
bw[i].printdetails();
```

}

}



Main.java

```
1 import java.util.Scanner;
2
3 class PLAYER
4 {
5     String name;
6     int matches_played;
7     double average;
8
9     Scanner ss=new Scanner(System.in);
10
11     void getDetails()
12     {
13         System.out.println("Enter the Player details: ");
14         System.out.println("Name: ");
15         name=ss.next();
16         System.out.println("Matched Played: ");
17         matches_played=ss.nextInt();
18     }
19
20 }
```



```
Main.java
21 {
22     average=(runs)/matches;
23     System.out.println("The average runs of "+nam+" is: "+average);
24     return average;
25 }
26
27 void printdetails()
28 {
29     System.out.println("The Player Details are:");
30     System.out.println("Name: "+name);
31     System.out.println("Matches Played: "+matches_played);
32     System.out.println("Average: "+average);
33 }
34 }
35
36 class BATSMAN extends PLAYER
37 {
38     int runs_scored;
39     double result;
```



```
Main.java
40
41 void getruns()
42 {
43     getDetails();
44     System.out.println("Enter the runs Scored : ");
45     runs_scored=ss.nextInt();
46     result=cal_average(name, runs_scored, matches_played);
47 }
48 }
49
50 class BOWLER extends PLAYER
51 {
52     int runs_given;
53     double result;
54
55     void getruns()
56     {
57         getDetails();
58         System.out.println("Enter the runs given : ");
59         runs_given=ss.nextInt();
```



Main.java

```
59     runs_given=ss.nextInt();
60     result=cal_average(name, runs_given, matches_played);
61 }
62 }
63
64 class Main
65 {
66     public static void main(String args[])
67     {
68         Scanner ss=new Scanner(System.in);
69
70         int n,m;
71         System.out.println("Enter the number of batsman and bowlers: ");
72         n=ss.nextInt();
73         m=ss.nextInt();
74         BATSMAN bt[]=new BATSMAN[n];
75         System.out.println("Enter the Details of the Batsmen: ");
76         for(int i=0;i<n;i++)
77         {
```





Main.java

```
78         bt[i]=new BATSMAN();
79         bt[i].getruns();
80     }
81     System.out.println("Enter the Details of the Bowlers: ");
82     BOWLER bw[]=new BOWLER[m];
83     for(int i=0;i<m;i++)
84     {
85         bw[i]=new BOWLER();
86         bw[i].getruns();
87     }
88     System.out.println("\n\nThe Details of the Batsman are: \n");
89     for(int i=0;i<n;i++)
90         bt[i].printdetails();
91     System.out.println("\n\nThe Details of the Bowlers are: \n");
92     for(int i=0;i<m;i++)
93         bw[i].printdetails();
94 }
95 }
96 }
```

input

Extensio

```
Enter the number of batsman and bowlers:
2
3
Enter the Details of the Batsmen:
Enter the Player details:
Name:
vamshi
Matched Played:
5
Enter the runs Scored :
200
The average runs of vamshi is: 40.0
Enter the Player details:
Name:
ram
Matched Played:
6
Enter the runs Scored :
205
The average runs of ram is: 34.0
Enter the Details of the Bowlers:
Enter the Player details:
Name:
sharat
Matched Played:
4
Enter the runs given :
60
The average runs of sharat is: 15.0
Enter the Player details:
Name:
kushil
Matched Played:
5
Enter the runs given :
63
```