```java
import java.util.Scanner;

abstract class player{
    String name;
    int matches_played;
    double average;

    player(String a,int b){
        name = a;
        matches_played = b;
        average = 0;
    }
    abstract double cal_average(String p,int q,int r);
}

class batsman extends player{
    int runs_scored;

    double cal_average(String n,int matches,int score){
        return (double)score/matches;
    }
    batsman(String a,int b,int c){
        super(a,b);
        runs_scored = c;
        average = cal_average(a,b,c);
    }
    void display(){
        System.out.println("Name: "+ name +" Matches played: "+ matches_played +" Runs given: "+ runs_scored +" Average: "+average);
    }

}
class bowler extends player{
    int runs_given;

    double cal_average(String n,int matches,int score){
        return (double)score/matches;
    }
    bowler(String a,int b,int c){
        super(a,b);
        runs_given = c;
        average = cal_average(a,b,c);
    }
    void display(){
        System.out.println("Name: "+ name +" Matches played: "+ matches_played +" Runs given: "+ runs_given +" Average: "+average);
```

```java
45         }
46     }
47
48 class playerDemo{
49     public static void main(String[] args){
50         int m,n;
51         String name;
52         int matches,score,runs;
53         Scanner sc = new Scanner(System.in);
54         System.out.print("How many batsmen? : ");
55         m = sc.nextInt();
56         System.out.print("How many bowlers? : ");
57         n = sc.nextInt();
58
59         batsman[] bat = new batsman[m];
60         bowler[] bowl = new bowler[n];
61
62         System.out.println("\nAccepting Batsmen details: ");
63         for(int i=0;i<m;i++){
64             System.out.println("Batsman: "+(i+1));
65             System.out.print("Enter name:");
66             name = sc.next();
67             System.out.print("Enter matches played:");
68             matches = sc.nextInt();
69             System.out.print("Enter total runs scored:");
70             runs = sc.nextInt();
71             bat[i] = new batsman(name,matches,runs);
72         }
73
74         System.out.println("\nAccepting Bowler details: ");
75         for(int i=0;i<n;i++){
76             System.out.println("Bowler: "+(i+1));
77             System.out.print("Enter name:");
78             name = sc.next();
79             System.out.print("Enter matches played:");
80             matches = sc.nextInt();
81             System.out.print("Enter total runs given:");
82             runs = sc.nextInt();
83             bowl[i] = new bowler(name,matches,runs);
84         }
85         System.out.println("\nHere are your details:");
86         for(int i=0;i<m;i++){
87             System.out.println("Batsman: "+(i+1));
88             bat[i].display();
89         }
90         for(int i=0;i<m;i++){
91             System.out.println("Bowler: "+(i+1));
92             bowl[i].display();
93         }
94
95
96     }
97 }
```

Output:

```
Process started (PID=40056) >>>
How many batsmen? : 2
How many bowlers? : 2

Accepting Batsmen details:
Batsman: 1
Enter name:bat1
Enter matches played:45
Enter total runs scored:200
Batsman: 2
Enter name:bat2
Enter matches played:30
Enter total runs scored:500

Accepting Bowler details:
Bowler: 1
Enter name:bowl1
Enter matches played:25
Enter total runs given:600
Bowler: 2
Enter name:bowl2
Enter matches played:20
Enter total runs given:400

Here are your details:
Batsman: 1
Name: bat1 Matches played: 45 Runs given: 200 Average: 4.44444444444445
Batsman: 2
Name: bat2 Matches played: 30 Runs given: 500 Average: 16.666666666666668
Bowler: 1
Name: bowl1 Matches played: 25 Runs given: 600 Average: 24.0
Bowler: 2
Name: bowl2 Matches played: 20 Runs given: 400 Average: 20.0
<<< Process finished (PID=40056). (Exit code 0)
================ READY ================
```