

Q:

```
import java.util.Scanner;  
class Player
```

```
{  
    private String name;  
    private int matches_played;  
    private double average;
```

```
    void setData()
```

```
{
```

```
    Scanner xx = new Scanner(System.in);  
    System.out.println("Enter the name of player:");
```

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

```
    xx.nextLine();
```

```
    System.out.print("Enter the number of  
    matches played by the player:");
```

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

```
}
```

```
    void setAverage(double x)
```

```
{
```

```
        average = x;
```

```
}
```

```
    int getMatchesPlayed()
```

```
{
```

```
        return matches_played;
```

```
}
```

```
    void displayAverage()
```

```
{
```

```
    System.out.println("The name of student is:"  
                        + name);
```



```

        System.out.println("The average of the player  
is: "+average);
    }
}

class batsman extends Player
{
    private int runs_scored[];
    private int n;

    void setdata()
    {
        setdata();
        Scanner xx = new Scanner(System.in);
        n = returnmatchesplayed();
        runs_scored = new int[n];
        System.out.println("Enter the runs scored:");
        for (int i = 0; i < n; i++)
        {
            System.out.print("Enter the runs scored  
in "+ (i+1) + " match:");
            runs_scored[i] = xx.nextInt();
        }
    }

    void calculateaverage()
    {
        double temp = 0;
        for (int i = 0; i < n; i++)
        {
            temp = temp + runs_scored[i];
        }
        temp = temp / returnmatchesplayed();
        setaverage(temp);
    }
}

```

```

public class u
{
    public static
    {
        int n,
        Scanner
        System

```

```

n = x
System

```

```

m = x
bats
base
System

```

```

for
{

```

```

{
System

```

```

for
{

```


public class work 12

```
{  
    public static void main (String args[])  
    {  
        int n, m;  
        Scanner xx = new Scanner (System.in);  
        System.out.println ("Enter the number  
        of batsman :");
```

```
n = xx.nextInt();
```

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

```
m = xx.nextInt();
```

```
batsman p1[] = new batsman[n];
```

```
bowler p2[] = new bowler[m];
```

```
System.out.println ("Enter the details of the  
        batsman :");
```

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

```
{  
    p1[i] = new batsman();
```

```
    p1[i].setdata();
```

```
    p1[i].calculateaverage();  
}
```

```
System.out.println ("Enter the details of  
        the bowlers :");
```

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

```
{  
    p2[i] = new bowler();
```

```
    p2[i].setdata();  
}
```



```

    p2[i].calculateaverage();
}
System.out.println("The details of the
    batsman are:");
for(int i=0; i<n; i++)
{
    p[i].displayaverage();
}
System.out.println("The details of
    the bowler are:");
for(int i=0; i<m; i++)
{
    p2[i].displayaverage();
}
}
}

```