

Week-7

PlayerInher . Java

```
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 the player");
```

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

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

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

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

```
}
```

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

```
{
```

```
        average = x;
```

```
}
```

```
    int returnMatchesPlayed()
```

```
{
```

```
        return matches_played;
```

```
}
```

```
void display average ()
```

```
{
```

```
System.out.println("Enter the name of the 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 = return matches played();
```

```
runs_scored = new int[n];
```

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

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

```
{
```

```
System.out.println("Enter the runs scored in " + (i+1) + " match:");
```

```
runs_scored[i] = xx.nextInt();
```

```
}
```

```
}
```

```
void calculate average ()
```

```
{
```

```
double temp = 0;
```

```

for(int i=0; i<n; i++)
{
    temp = temp + run_scored[i];
}
temp = temp / return matches played ();
setaverage(temp);
}
}

```

```

class bowler extends Player &
private int runs_scored [];
private int n;
void setdata ()
{

```

```

    setdata ()
    {
        Scanner xx = new Scanner (system.in);
        n = return matches played ();
        runs_scored = new int[n];
        System.out.println("Enter the runs given : ");
        for(int i=0; i<n; i++)
        {

```

```

            System.out.println("Enter the runs given 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 PlayerInher {
    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();
        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++)
```

```
{
```

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

```
}
```

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

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

```
{
```

```
    p2[i].displayaverage();
```

```
}
```

```
}
```

```
}
```