WEEK 7 (06/11/2020)

Q.2) Player average

```java
/*Develop a Java program to create a class PLAYER with member variables
name,
        matches_played and average. This class has an abstract method
cal_average(String,int,int).
        Derive two classes BATSMAN and BOWLER from PLAYER. Class BATSMAN
has a
        member variable runs_scored. Class BOWLER has a member variable
runs_given. Create m
        BATSMAN objects and n BOWLER objects. Calculate and display the
average runs scored
        by each BATSMAN and average runs given by each BOWLER.*/


import java.util.Scanner;
class player5{
    int noofmatches;
    String name;
    int avg;

    void cal_avg(int m ,int n){
        noofmatches = m;
        avg = n;
        System.out.println("manualy provided data");
        System.out.println(name+" "+noofmatches+" "+avg);
    }


}

class batsman extends player5{
    Scanner sc = new Scanner(System.in);
    int runs_scored;
    double avgrunsco;

    void setd1() {
        System.out.print("NAME :");
        name = sc.next();
        System.out.print("MATCHES PLAYED :");
        noofmatches = sc.nextInt();
        System.out.print("RUNS SCORED :");
        runs_scored = sc.nextInt();
        avgrunsco = (double)runs_scored/(double) noofmatches;
    }
```

```java
    void putd1(){
        System.out.println("        "+name+"            "+avgrunsco+"
"+noofmatches);
    }
}



class bowler extends player5{
    Scanner sc = new Scanner(System.in);
    int  runs_given;
    double avgrungiv;

    void setd2() {
        System.out.print("NAME :");
        name = sc.next();
        System.out.print("MATCHES PLAYED :");
        noofmatches = sc.nextInt();
        System.out.print("TOTAL RUNS GIVEN :");
        runs_given = sc.nextInt();
        avgrungiv = (double) runs_given/(double) noofmatches;
    }

    void putd2(){
        System.out.println("        "+name+"            "+avgrungiv+"
"+noofmatches);
    }

}



class player5Main{
    public static void main(String ss[]){
        Scanner sc = new Scanner(System.in);
        int m,n;

        System.out.println("NO OF BATSMAN PLAYED");
        m = sc.nextInt();
        batsman bat1[] = new batsman[m];
        System.out.println("\nENTER BATSMAN'S DETAILS");
        System.out.println("--------------------");
        for(int i=0;i<m;i++){
            System.out.println("BATSMAN :"+(i+1));
            bat1[i] = new batsman();
            bat1[i].setd1();
            System.out.println("-----------------");
        }

        System.out.println("\nNO OF BOWLERS PLAYED");
        n = sc.nextInt();
        bowler bow1[] = new bowler[n];
        System.out.println("\nENTER BOWLER'S DETAILS");
        System.out.println("--------------------");
        for(int i=0;i<n;i++){
            System.out.println("BOWLER :"+(i+1));
            bow1[i] = new bowler();
            bow1[i].setd2();
            System.out.println("-----------------");
        }
```

```java
        System.out.println("\n\n-----------------------------------------
");
        System.out.println("*******  BATMAN'S AVERAGE REPORT  *******");
        System.out.println("----------------------------------------");
        System.out.println("S.NO  |NAME  |  AVERAGE  |  NO.MATCHES");
        System.out.println("----------------------------------------");
        for(int i=0;i<m;i++){
            System.out.print((i+1)+") ");
            bat1[i].putd1();
        }
        System.out.println("----------------------------------------");
        System.out.println("\n\n-----------------------------------------
");
        System.out.println("*******  BOWLER'S AVERAGE REPORT  *******");
        System.out.println("----------------------------------------");
        System.out.println("S.NO  |NAME  |  AVERAGE  |  NO.MATCHES");
        System.out.println("----------------------------------------");
        for(int i=0;i<n;i++){
            System.out.print((i+1)+") ");
            bow1[i].putd2();
        }
        System.out.println("----------------------------------------");

        player5 p1 = new player5();
        p1.cal_avg(80, 10 );
    }
}
```