WEEK 7 (06/11/2020)

Q.2) Player average

/\*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;  
 }  
  
 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("-----------------");  
 }  
  
 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 );  
 }  
}