C: > Users > akki > Desktop > PROJECT WORK > player.java > Player > avg()

```java
import java.util.*;

class Player{
    String id;
    String name;
    int scores[];
    int no_matches_played;

    Player(){}

    void getDetails(){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter player details:");
        System.out.println("Enter ID:");
        id = sc.next();
        System.out.println("Enter Name:");
        name = sc.next();
        System.out.println("Enter number of matches played:");
        no_matches_played = sc.nextInt();
        scores = new int[no_matches_played];
        for(int i = 0; i < no_matches_played; i++){
            System.out.println("Enter the score of match " + (i+1) + ":");
            scores[i] = sc.nextInt();
        }
    }
    void printDetails(){
        System.out.println("The player details are:");
        System.out.println("ID: " + id + "\nName: " + name + "\nNo of matches played: " + no_matches_played);
        for(int i = 0; i < no_matches_played; i++){
            System.out.println("The score of the match " + (i+1) +": " + scores[i]);
        }
    }
    double avg(){
        int sum = 0;
        for(int i = 0; i < no_matches_played; i++){
            sum += scores[i];
        }
        return (sum / (no_matches_played + 0.0));
    }
}


class Playermain
{
    Run | Debug
    public static void main(String[] args)
    {
        double p1avg,p2avg;
        Player p1 = new Player();
```

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```
            System.out.println("Enter the score of match " + (i+1) + ":");
            scores[i] = sc.nextInt();
        }
    }
    void printDetails(){
        System.out.println("The player details are:");
        System.out.println("ID: " + id + "\nName: " + name + "\nNo of matches played: " + no_matches_played);
        for(int i = 0; i < no_matches_played; i++){
            System.out.println("The score of the match " + (i+1) +": " + scores[i]);
        }
    }
    double avg(){
        int sum = 0;
        for(int i = 0; i < no_matches_played; i++){
            sum += scores[i];
        }
        return (sum / (no_matches_played + 0.0));
    }
}


class Playermain
{
    Run | Debug
    public static void main(String[] args)
    {
        double p1avg,p2avg;
        Player p1 = new Player();
        p1.getDetails();
        Player p2 = new Player();
        p2.getDetails();
        p1avg = p1.avg();
        p2avg = p2.avg();
        if (p1avg > p2avg)
        {
        System.out.println("Player 1 has the greatest average score."+p1avg);
        p1.printDetails();
        }
        else
        {
        System.out.println("Player 2 has the greatest average score."+p2avg);
        p2.printDetails();
        }

    }
}
```

OUTPUT DEBUG CONSOLE TERMINAL

```
C:\Users\akki\Desktop\PROJECT WORK>javac player.java

C:\Users\akki\Desktop\PROJECT WORK>java Playermain
Enter player details:
Enter ID:
578585
Enter Name:
john
Enter number of matches played:
4
Enter the score of match 1:
16
Enter the score of match 2:
45
Enter the score of match 3:
56
Enter the score of match 4:
76
Enter player details:
Enter ID:
79879
Enter Name:
Simon
Enter number of matches played:
4
Enter the score of match 1:
32
Enter the score of match 2:
56
Enter the score of match 3:
16
Enter the score of match 4:
29
Player 1 has the greatest average score.48.25
The player details are:
ID: 578585
Name: john
No of matches played: 4
The score of the match 1: 16
The score of the match 2: 45
The score of the match 3: 56
The score of the match 4: 76

C:\Users\akki\Desktop\PROJECT WORK>
```

```java
import java.util.Scanner;
class Book
{
   int bookid;
   String booktitle;
   int no_of_pages;
   int year_of_pub;
   String author;
   String publisher;
   double price;
void acceptDetails()
   {
   Scanner b=new Scanner(System.in);
   System.out.println("Enter the Bookid:");
   bookid=b.nextInt();
   System.out.println("Enter the Booktitle:");
   booktitle=b.next();
   System.out.println("Enter the no. of pages:");
   no_of_pages=b.nextInt();
   System.out.println("Enter the year of publication:");
   year_of_pub=b.nextInt();
   System.out.println("Enter the Author's name:");
   author=b.next();
   System.out.println("Enter the Publisher:");
   publisher=b.next();
   System.out.println("Enter the Price");
   price=b.nextDouble();
   }
void displayDetails()
{
    System.out.println("*****BOOK DETAILS*****");
    System.out.println("Bookid:"+bookid);
    System.out.println("Booktitle:"+booktitle);
    System.out.println("Number of pages in book:"+no_of_pages);
    System.out.println("Year of publication:"+year_of_pub);
    System.out.println("Author's name:"+author);
    System.out.println("Publisher:"+publisher);
    System.out.println("Price of the book:"+price);
}
}
class BookMain
{
    Run | Debug
    public static void main(String args[])
    {
```

> Users > akki > Desktop > PROJECT WORK > book.java > BookMain

```
    System.out.println("Publisher:"+publisher);
    System.out.println("Price of the book:"+price);
}
}
class BookMain
{
    Run | Debug
    public static void main(String args[])
    {
        Book b1=new Book();
        b1.acceptDetails();
        Book b2=new Book();
        b2.acceptDetails();
        Book b3=new Book();
        b3.acceptDetails();
        if((b1.price>b2.price)&&(b1.price>b3.price))
        {
        System.out.println("The Booktitle of the most expensive book is:"+b1.booktitle);
        }
        else if((b2.price>b1.price)&&(b2.price>b3.price))
        {
        System.out.println("The Booktitle of the most expensive book is:"+b2.booktitle);
        }
        else
        {
        System.out.println("The Booktitle of the most expensive book is:"+b3.booktitle);
        }
        if((b1.year_of_pub==2020)&&(b2.year_of_pub==2020)&&(b3.year_of_pub==2020))
        {
            System.out.println("The number of book published in year 2020 is 3");
        }
        else if((b1.year_of_pub==2020)||(b2.year_of_pub==2020)||(b3.year_of_pub==2020))
        {
            System.out.println("The number of book published in year 2020 is 2");
        }
        else
        {
        System.out.println("The number of book published in year 2020 is 1");
        }
        if((b1.no_of_pages<b2.no_of_pages)&&(b1.no_of_pages<b3.no_of_pages))
        {
            System.out.println("The book details of the book with least number of pages:");
            b1.displayDetails();
        }
        else if((b2.no_of_pages<b1.no_of_pages)&&(b2.no_of_pages<b3.no_of_pages))
        {
            System.out.println("The book details of the book with least number of pages:");
            b2.displayDetails();
```

```
        Book b2=new Book();
        b2.acceptDetails();
        Book b3=new Book();
        b3.acceptDetails();
        if((b1.price>b2.price)&&(b1.price>b3.price))
        {
        System.out.println("The Booktitle of the most expensive book is:"+b1.booktitle);
        }
        else if((b2.price>b1.price)&&(b2.price>b3.price))
        {
        System.out.println("The Booktitle of the most expensive book is:"+b2.booktitle);
        }
        else
        {
        System.out.println("The Booktitle of the most expensive book is:"+b3.booktitle);
        }
        if((b1.year_of_pub==2020)&&(b2.year_of_pub==2020)&&(b3.year_of_pub==2020))
        {
            System.out.println("The number of book published in year 2020 is 3");
        }
        else if((b1.year_of_pub==2020)||(b2.year_of_pub==2020)||(b3.year_of_pub==2020))
        {
            System.out.println("The number of book published in year 2020 is 2");
        }
        else
        {
        System.out.println("The number of book published in year 2020 is 1");
        }
        if((b1.no_of_pages<b2.no_of_pages)&&(b1.no_of_pages<b3.no_of_pages))
        {
            System.out.println("The book details of the book with least number of pages:");
            b1.displayDetails();
        }
        else if((b2.no_of_pages<b1.no_of_pages)&&(b2.no_of_pages<b3.no_of_pages))
        {
            System.out.println("The book details of the book with least number of pages:");
            b2.displayDetails();
        }
        else
        {
            System.out.println("The book details of the book with least number of pages:");
            b3.displayDetails();
        }

    }

}
```

```
OUTPUT  DEBUG CONSOLE  TERMINAL
C:\Users\akki\Desktop\PROJECT WORK>java BookMain
Enter the Bookid:
5768
Enter the Booktitle:
Ambassadors
Enter the no. of pages:
220
Enter the year of publication:
2019
Enter the Author's name:
John.M
Enter the Publisher:
SimonLivre
Enter the Price
560.25
Enter the Bookid:
78977
Enter the Booktitle:
Communications
Enter the no. of pages:
157
Enter the year of publication:
2020
Enter the Author's name:
JennifferG
Enter the Publisher:
Rowman.J
Enter the Price
326.90
Enter the Bookid:
759827
Enter the Booktitle:
Reports
Enter the no. of pages:
420
Enter the year of publication:
2020
Enter the Author's name:
M.K.Singh
Enter the Publisher:
RDSanket
Enter the Price
430.75
The Booktitle of the most expensive book is:Ambassadors
The number of book published in year 2020 is 2
The book details of the book with least number of pages:
*****BOOK DETAILS*****
Bookid:78977
Booktitle:Communications
Number of pages in book:157
Year of publication:2020
Author's name:JennifferG
Publisher:Rowman.J
Price of the book:326.9
```