

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

```
1  import java.util.*;
2
3  class Player{
4      String id;
5      String name;
6      int scores[];
7      int no_matches_played;
8
9      Player(){}
10
11     void getDetails(){
12         Scanner sc = new Scanner(System.in);
13         System.out.println("Enter player details:");
14         System.out.println("Enter ID:");
15         id = sc.next();
16         System.out.println("Enter Name:");
17         name = sc.next();
18         System.out.println("Enter number of matches played:");
19         no_matches_played = sc.nextInt();
20         scores = new int[no_matches_played];
21         for(int i = 0; i < no_matches_played; i++){
22             System.out.println("Enter the score of match " + (i+1) + ":");
23             scores[i] = sc.nextInt();
24         }
25     }
26     void printDetails(){
27         System.out.println("The player details are:");
28         System.out.println("ID: " + id + "\nName: " + name + "\nNo of matches played: " + no_matches_played);
29         for(int i = 0; i < no_matches_played; i++){
30             System.out.println("The score of the match " + (i+1) + ": " + scores[i]);
31         }
32     }
33     double avg(){
34         int sum = 0;
35         for(int i = 0; i < no_matches_played; i++){
36             sum += scores[i];
37         }
38         return (sum / (no_matches_played + 0.0));
39     }
40 }
41
42
43 class Playermain
44 {
45     Run | Debug
46     public static void main(String[] args)
47     {
48         double p1avg,p2avg;
49         Player p1 = new Player();
```

```

C: > Users > akki > Desktop > PROJECT WORK > player.java > Player > avg0
22     System.out.println("Enter the score of match " + (i+1) + ":");
23     scores[i] = sc.nextInt();
24 }
25 }
26 void printDetails(){
27     System.out.println("The player details are:");
28     System.out.println("ID: " + id + "\nName: " + name + "\nNo of matches played: " + no_matches_played);
29     for(int i = 0; i < no_matches_played; i++){
30         System.out.println("The score of the match " + (i+1) + ": " + scores[i]);
31     }
32 }
33 double avg(){
34     int sum = 0;
35     for(int i = 0; i < no_matches_played; i++){
36         sum += scores[i];
37     }
38     return (sum / (no_matches_played + 0.0));
39 }
40 }
41
42
43 class Playermain
44 {
45     Run | Debug
46     public static void main(String[] args)
47     {
48         double p1avg,p2avg;
49         Player p1 = new Player();
50         p1.getDetails();
51         Player p2 = new Player();
52         p2.getDetails();
53         p1avg = p1.avg();
54         p2avg = p2.avg();
55         if (p1avg > p2avg)
56         {
57             System.out.println("Player 1 has the greatest average score."+p1avg);
58             p1.printDetails();
59         }
60         else
61         {
62             System.out.println("Player 2 has the greatest average score."+p2avg);
63             p2.printDetails();
64         }
65     }
66 }

```

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>

```
1  import java.util.Scanner;
2  class Book
3  {
4      int bookid;
5      String booktitle;
6      int no_of_pages;
7      int year_of_pub;
8      String author;
9      String publisher;
10     double price;
11     void acceptDetails()
12     {
13         Scanner b=new Scanner(System.in);
14         System.out.println("Enter the Bookid:");
15         bookid=b.nextInt();
16         System.out.println("Enter the Booktitle:");
17         booktitle=b.next();
18         System.out.println("Enter the no. of pages:");
19         no_of_pages=b.nextInt();
20         System.out.println("Enter the year of publication:");
21         year_of_pub=b.nextInt();
22         System.out.println("Enter the Author's name:");
23         author=b.next();
24         System.out.println("Enter the Publisher:");
25         publisher=b.next();
26         System.out.println("Enter the Price");
27         price=b.nextDouble();
28     }
29     void displayDetails()
30     {
31         System.out.println("*****BOOK DETAILS*****");
32         System.out.println("Bookid:"+bookid);
33         System.out.println("Booktitle:"+booktitle);
34         System.out.println("Number of pages in book:"+no_of_pages);
35         System.out.println("Year of publication:"+year_of_pub);
36         System.out.println("Author's name:"+author);
37         System.out.println("Publisher:"+publisher);
38         System.out.println("Price of the book:"+price);
39     }
40 }
41 class BookMain
42 {
43     Run | Debug
44     public static void main(String args[])
45     {
```



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

```
87     System.out.println("Publisher:"+publisher);
88     System.out.println("Price of the book:"+price);
89 }
90 }
91
92 class BookMain
93 {
94     Run | Debug
95     public static void main(String args[])
96     {
97         Book b1=new Book();
98         b1.acceptDetails();
99         Book b2=new Book();
100        b2.acceptDetails();
101        Book b3=new Book();
102        b3.acceptDetails();
103        if((b1.price>b2.price)&&(b1.price>b3.price))
104        {
105            System.out.println("The Booktitle of the most expensive book is:"+b1.booktitle);
106        }
107        else if((b2.price>b1.price)&&(b2.price>b3.price))
108        {
109            System.out.println("The Booktitle of the most expensive book is:"+b2.booktitle);
110        }
111        else
112        {
113            System.out.println("The Booktitle of the most expensive book is:"+b3.booktitle);
114        }
115        if((b1.year_of_pub==2020)&&(b2.year_of_pub==2020)&&(b3.year_of_pub==2020))
116        {
117            System.out.println("The number of book published in year 2020 is 3");
118        }
119        else if((b1.year_of_pub==2020)||(b2.year_of_pub==2020)||(b3.year_of_pub==2020))
120        {
121            System.out.println("The number of book published in year 2020 is 2");
122        }
123        else
124        {
125            System.out.println("The number of book published in year 2020 is 1");
126        }
127        if((b1.no_of_pages<b2.no_of_pages)&&(b1.no_of_pages<b3.no_of_pages))
128        {
129            System.out.println("The book details of the book with least number of pages:");
130            b1.displayDetails();
131        }
132        else if((b2.no_of_pages<b1.no_of_pages)&&(b2.no_of_pages<b3.no_of_pages))
133        {
134            System.out.println("The book details of the book with least number of pages:");
135            b2.displayDetails();
136        }
137    }
138 }
```

```
47 Book b2=new Book();
48 b2.acceptDetails();
49 Book b3=new Book();
50 b3.acceptDetails();
51 if((b1.price>b2.price)&&(b1.price>b3.price))
52 {
53 System.out.println("The Booktitle of the most expensive book is:"+b1.booktitle);
54 }
55 else if((b2.price>b1.price)&&(b2.price>b3.price))
56 {
57 System.out.println("The Booktitle of the most expensive book is:"+b2.booktitle);
58 }
59 else
60 {
61 System.out.println("The Booktitle of the most expensive book is:"+b3.booktitle);
62 }
63 if((b1.year_of_pub==2020)&&(b2.year_of_pub==2020)&&(b3.year_of_pub==2020))
64 {
65 System.out.println("The number of book published in year 2020 is 3");
66 }
67 else if((b1.year_of_pub==2020)|| (b2.year_of_pub==2020)|| (b3.year_of_pub==2020))
68 {
69 System.out.println("The number of book published in year 2020 is 2");
70 }
71 else
72 {
73 System.out.println("The number of book published in year 2020 is 1");
74 }
75 if((b1.no_of_pages<b2.no_of_pages)&&(b1.no_of_pages<b3.no_of_pages))
76 {
77 System.out.println("The book details of the book with least number of pages:");
78 b1.displayDetails();
79 }
80 else if((b2.no_of_pages<b1.no_of_pages)&&(b2.no_of_pages<b3.no_of_pages))
81 {
82 System.out.println("The book details of the book with least number of pages:");
83 b2.displayDetails();
84 }
85 else
86 {
87 System.out.println("The book details of the book with least number of pages:");
88 b3.displayDetails();
89 }
90 }
91 }
92
93
```

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