

Program 1:

```
import java.util.*;
```

```
class Player{
```

```
int id;
```

```
String name;
```

```
int n;
```

```
double scores[];
```

```
double sum=0.0;
```

```
Player(){
```

```
Scanner in=new Scanner(System.in);
```

```
System.out.println("Enter the name and id of the player");
```

```
name = in.nextLine();
```

```
id = in.nextInt();
```

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

```
n=in.nextInt();
```

```
System.out.println("No of scores scored by played in every match :");
```

```
scores=new double[n];
```

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

```
{
```

```
scores[i]=in.nextDouble();
```

```
}
```

```
}
```

```
double avg_score(){
```

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

```
{
```

```
sum+=scores[i];
```

```

}
return sum/n;
}

void display(){
System.out.println("Details of best player among two");
System.out.println("Name:"+name);
System.out.println("id:"+id);
System.out.println("No of matches played:"+n);
System.out.println("No of scores scored by played in every match :");
for(int i=0;i<n;i++)
{
System.out.println(+scores[i]);
}
}
}

class Main{
public static void main(String args[]){

Player p1=new Player();
Player p2=new Player();

double avg1=0.0,avg2=0.0;

avg1=p1.avg_score();
System.out.println("Average score of player1."+avg1);

avg2=p2.avg_score();
System.out.println("Average score of player2."+avg2);

if(avg1>avg2)

```

```
{  
    System.out.println("Average score of player1 is greater :");  
    p1.display();  
}  
else  
{  
    System.out.println("Average score of player2 is greater :");  
    p2.display();  
}  
}  
}
```

```

Enter the name and id of the player
Sid
002
Enter number of matches played by the player :
5
No of scores scored by played in every match :
183
84
356
15
45
Enter the name and id of the player
Rocky
005
Enter number of matches played by the player :
5
No of scores scored by played in every match :
84
165
156
< 254
0
Average score of player1.136.6
Average score of player2.131.8
Average score of player1 is greater :
Details of best player among two
Name:Sid
id:2
No of matches played:5
No of scores scored by played in every match :
183.0
84.0
356.0
15.0
45.0

```

Program 2 :

```
package Week2;
```

```

import java.util.Scanner;

public class Main{

    public static void main(String args[]){

        Book[] B =new Book[3];
    }
}

```

```
B[0] = new Book();
```

```
B[1] = new Book();
```

```
B[2] = new Book();
```

```
B[0].display();
```

```
B[1].display();
```

```
B[2].display();
```

```
Book.authername(B);
```

```
Book.expensive(B);
```

```
Book.check(B);
```

```
Book.pages(B);
```

```
}
```

```
}
```

```
class Book{
```

```
int bookid;
```

```
String booktitle;
```

```
int no_of_pages;
```

```
int yr_of_pub;
```

```
String author;
```

```
String publisher;
```

```
double price;
```

```
int count=0 ;
```

```
String authername;
```

```
Book(){
```

```
Scanner in=new Scanner(System.in);
```

```
System.out.println("Enter Book id:");
```

```
this.bookid=in.nextInt();
```

```
System.out.println("Enter Book title :");
```

```
in.nextLine();
```

```

this.booktitle=in.nextLine();

System.out.println("Enter author name: ");

this.author=in.nextLine();

System.out.println("Enter publisher name :");

this.publisher=in.nextLine();

System.out.println("Enter no of pages :");

this.no_of_pages=in.nextInt();

System.out.println("Enter year of publish of the book: ");

this.yr_of_pub=in.nextInt();

System.out.println("Enter Book price:");

this.price=in.nextDouble();

}

```

```

public void display(){

System.out.println("BOOK DETAILS:");

System.out.println("Book id:"+bookid);

System.out.println("Book title :"+booktitle);

System.out.println("no of pages :"+no_of_pages);

System.out.println("year of publish of the book:"+yr_of_pub);

System.out.println("author name: "+author);

System.out.println("publisher name :"+publisher);

System.out.println("Book price:"+price);

}

```

```

public static void check(Book [] B){

int count=0;

for(int i=0;i<B.length;i++) {

if(B[i].yr_of_pub==2000)

```

```
{  
    count++;  
}  
System.out.println("No of books published in the year 2000"+count);  
}
```

```
public static void authorname(Book[] B){
```

```
    System.out.println("Enter the author name here");
```

```
    Scanner in=new Scanner(System.in);
```

```
    String authornae=in.nextLine();
```

```
    if(authornae==B[0].author)
```

```
    {
```

```
        B[0].display();
```

```
    }
```

```
    else if(authornae==B[1].author)
```

```
    {
```

```
        B[1].display();
```

```
    }
```

```
    else if(authornae==B[2].author)
```

```
    {
```

```
        B[2].display();
```

```
    }
```

```
    else
```

```
    {
```

```
        System.out.println("Sorry not found");
```

```
    }
```

```
}
```

```
public static void expensive(Book[] B){  
    if((B[0].price>B[1].price) && (B[0].price>B[2].price))  
    {  
        System.out.println("B1 is more expensive and booktitle is "+B[0].booktitle);  
    }  
    else if((B[1].price>B[0].price) && (B[1].price>B[2].price))  
    {  
        System.out.println("B2 is more expensive and booktitle is "+B[1].booktitle);  
    }  
    else  
    {  
        System.out.println("B3 is more expensive and booktitle is "+B[2].booktitle);  
    }  
}
```

```
public static void pages(Book[] B){  
    if((B[0].no_of_pages<B[1].no_of_pages) && (B[0].no_of_pages<B[2].no_of_pages))  
    {  
        System.out.println("B1 hasleast no of pages");  
        B[0].display();  
    }  
    else if((B[1].no_of_pages>B[0].no_of_pages) && (B[1].no_of_pages>B[2].no_of_pages))  
    {  
        System.out.println("B2 has least no of pages");  
        B[1].display();  
    }  
    else  
    {  
        System.out.println("B3 has least no of pages");  
        B[2].display();  
    }  
}
```



}

}}

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publisher name :AMOGH

Book price:12000.0

BOOK DETAILS:

Book id:2

Book title :THE LION KING

no of pages :600

year of publish of the book:1950

author name: TARUN

publisher name :BALAJI

Book price:300.0

BOOK DETAILS:

Book id:3

Book title :THE CSK FAN

no of pages :400

year of publish of the book:2020

author name: PREMA

publisher name :SID SINCE 2020

Book price:20000.0

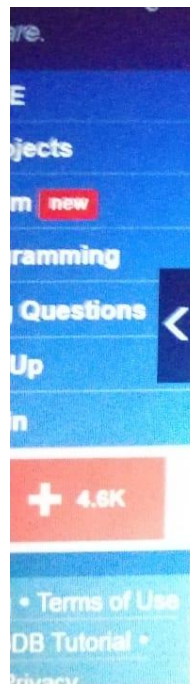
Enter the author name here

AMOGH

Sorry not found

B3 is more expensive and booktitle isTHE CSK FA

No of books published in the year 20001



BOOK DETAILS:  
Book id:1  
Book title :PREMA THE LOVE  
no of pages :300  
year of publish of the book:2000  
author name: SIDDARTH  
publisher name :AMOGH  
Book price:12000.0  
BOOK DETAILS:  
Book id:2  
Book title :THE LION KING  
no of pages :600  
year of publish of the book:1950  
author name: TARUN  
publisher name :BALAJI  
Book price:300.0  
BOOK DETAILS:  
Book id:3