

Bk - Notepad

```
File Edit Format View Help
import java.util.Scanner;
class Book{
int i,no_of_pages;
double year_of_pub;
float price;
String bookid;
String booktitle;
String author;
String publisher;

void inputdata(){
Scanner sc=new Scanner(System.in);
System.out.println("Enter the BookID =");
bookid=sc.next();
System.out.println("Enter the title of the Book =");
booktitle=sc.next();
System.out.println("Enter the Author and Publisher of the Book =");
author=sc.next();
publisher=sc.next();
System.out.println("Enter the Number of pages in the Book =");
no_of_pages=sc.nextInt();
System.out.println("Enter the year of publication of the Book =");
year_of_pub=sc.nextDouble();
System.out.println("Enter the price of the Book =");
price=sc.nextFloat();
}

void outputdata(){
System.out.print("<-----BOOK Details:----->\n");
System.out.println("BookID =" +bookid+"\n");
System.out.println("The Title of the Book =" +booktitle+"\n");
System.out.println("The Author and Publisher of the Book =" +author+publisher+"\n");
System.out.println("The Number of pages in the Book =" +no_of_pages+"\n");
System.out.println("The year of publication of the Book =" +year_of_pub+"\n");
System.out.println("The price of the Book =" +price+"\n");
}

float expbk(){
return price;
}
void bktitle(){
System.out.print("The Most Expensive Book = "+booktitle+"\n");
}
```

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```
File Edit Format View Help
System.out.print("The Most Expensive Book = "+booktitle+"\n");
}
int page(){
return no_of_pages;
}
double year(){
return year_of_pub;
}
}

class Bk{
public static void main(String[] args) {
int count=0;
Book b1=new Book();
Book b2=new Book();
Book b3=new Book();
b1.inputdata();
b2.inputdata();
b3.inputdata();
b1.outputdata();
b2.outputdata();
b3.outputdata();
if((b1.expbk()>b2.expbk()) && (b1.expbk()>b3.expbk()))
b1.bktile();
if((b2.expbk()>b1.expbk()) && (b2.expbk()>b3.expbk()))
b2.bktile();
if((b3.expbk()>b1.expbk()) && (b3.expbk()>b2.expbk()))
b3.bktile();

if (b1.year()==2020)
count++;
if (b2.year()==2020)
count++;
if (b3.year()==2020)
count++;
System.out.println("No.of books published in 2020 =" +count+"\n");

System.out.println("<-----DETAILS of the Book with least pages----->\n");
if((b1.page()<b2.page()) && (b1.page()<b3.page()))
b1.outputdata();
<
```

Bk - Notepad

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```
class Bk{
public static void main(String[] args) {
int count=0;
Book b1=new Book();
Book b2=new Book();
Book b3=new Book();
b1.inputdata();
b2.inputdata();
b3.inputdata();
b1.outputdata();
b2.outputdata();
b3.outputdata();
if((b1.expbk())>b2.expbk() && (b1.expbk())>b3.expbk()))
b1.bktile();
if((b2.expbk())>b1.expbk() && (b2.expbk())>b3.expbk())
b2.bktile();
if((b3.expbk())>b1.expbk() && (b3.expbk())>b2.expbk())
b3.bktile();

if (b1.year()==2020)
count++;
if (b2.year()==2020)
count++;
if (b3.year()==2020)
count++;
System.out.println("No.of books published in 2020 =" +count+"\n");

System.out.println("-----DETAILS of the Book with least pages-----\n");
if((b1.page())<b2.page()) && (b1.page())<b3.page())
b1.outputdata();
else if((b2.page())<b1.page()) && (b2.page())<b3.page())
b2.outputdata();
else
b3.outputdata();
}
}
```

```
C:\Users\AKSHAY RASTOGI\Desktop>java prog>javac Bk.java
C:\Users\AKSHAY RASTOGI\Desktop>java prog>java Bk
Enter the BookID =
1
Enter the title of the Book =
a
Enter the Author and Publisher of the Book =
asd
ads
Enter the Number of pages in the Book =
200
Enter the year of publication of the Book =
2020
Enter the price of the Book =
300
Enter the BookID =
2
Enter the title of the Book =
B
Enter the Author and Publisher of the Book =
dgc
greg
Enter the Number of pages in the Book =
300
Enter the year of publication of the Book =
2020
Enter the price of the Book =
449
Enter the BookID =
3
Enter the title of the Book =
C
Enter the Author and Publisher of the Book =
d
gf
Enter the Number of pages in the Book =
330
Enter the year of publication of the Book =
2019
Enter the price of the Book =
```

```
2019
Enter the price of the Book =
30
-----BOOK Details:----->
BookID =1

The Title of the Book =a
The Author and Publisher of the Book =asdads
The Number of pages in the Book =200
The year of publication of the Book =2020.0
The price of the Book =300.0
-----BOOK Details:----->
BookID =2

The Title of the Book =B
The Author and Publisher of the Book =dqfgreg
The Number of pages in the Book =300
The year of publication of the Book =2020.0
The price of the Book =449.0
-----BOOK Details:----->
BookID =3

The Title of the Book =C
The Author and Publisher of the Book =dgf
The Number of pages in the Book =330
The year of publication of the Book =2019.0
The price of the Book =439.0
```

```
BookID =3
The Title of the Book =C
The Author and Publisher of the Book =dgc
The Number of pages in the Book =330
The year of publication of the Book =2019.0
The price of the Book =430.0
The Most Expensive Book = B
No.of books published in 2020 =2
-----DETAILS of the Book with least pages----->
-----BOOK Details:----->
BookID =1
The Title of the Book =a
The Author and Publisher of the Book =asdads
The Number of pages in the Book =200
The year of publication of the Book =2020.0
The price of the Book =300.0
```

```
C:\Users\AKSHAY RASTOGI\Desktop\java prog>=
```

## Extra Programs (Week 4)

```
2) import java.util.Scanner ;  
class Book {  
    int i , no_of_pages ;  
    double year_of_pub ;  
    float price ;  
    String bookid ;  
    String booktitle ;  
    String author ;  
    String publisher ;  
  
    void inputdata() {  
        Scanner sc = new Scanner(System.in) ;  
        System.out.println("Enter the BookID = ");  
        bookid = sc.next() ;  
        System.out.println("Enter the title of the Book = ");  
        booktitle = sc.next() ;  
        System.out.println("Enter the Author and Publisher of the Book = ");  
        author = sc.next() ;  
        publisher = sc.next() ;  
        System.out.println("Enter the Number of pages in the Book = ");  
        no_of_pages = sc.nextInt() ;  
        System.out.println("Enter the Year of publication of the Book = ");  
        year_of_pub = sc.nextDouble() ;  
    }  
}
```

```
System.out.println("Enter the price of the Book = ");  
price = sc.nextFloat();
```

```
void outputdata() {
```

```
System.out.print("<----- Book Details ----->");
```

```
System.out.println("BookID = " + bookid + "\n");
```

```
System.out.println("The Title of the Book = " + booktitle + "\n");
```

```
System.out.println("The Author and Publisher of the Book = " + author + publisher + "\n");
```

```
System.out.println("The Number of pages in the Book = " + no_of_pages + "\n");
```

```
System.out.println("The year of publication of the Book = " + year_of_pub + "\n");
```

```
System.out.println("The price of book = " + price + "\n");
```

```
}
```

```
float expbk() {
```

```
return price;
```

```
}
```

```
Void booktitle()
```

```
System.out.print("The Most Expensive Book = " + booktitle + "\n");
```

```
g
```

```
int page () {
```

```
return no_of_pages;
```

```
}
```

```
double year () {
```

```
return year_of_pub;
```

```
y
```

```
g
```

```
Class Bk {
```

```
public static void main (String [] args) {
```

```
int count = 0;
```

```
Book b1 = new Book ()
```

```

Book b1 = new Book();
Book b2 = new Book();
Book b3 = new Book();

b1.readinputdata();
b2.readinputdata();
b3.readinputdata();

b1.outputdata();
b2.outputdata();
b3.outputdata();

if ((b1.expbk() > b2.expbk()) && (b1.expbk() > b3.expbk()))
    b1.bkttitle();
if ((b2.expbk() > b1.expbk()) && (b2.expbk() > b3.expbk()))
    b2.bkttitle();
if ((b3.expbk() > b1.expbk()) && (b3.expbk() > b2.expbk()))
    b3.bkttitle();

```

```

if (b1.year() == 2020)
    count++;
if (b2.year() == 2020)
    count++;
if (b3.year() == 2020)
    count++;

```

System.out.println("No. of Books published in 2020 = " + count + "(n)");

```

System.out.println("----- Details of the Book with least pages -----");
if ((b1.page() < b2.page()) && (b1.page() < b3.page()))
    b1.outputdata();
else if ((b2.page() < b1.page()) && (b2.page() < b3.page()))
    b2.outputdata();
else
    b3.outputdata();
}
}

```

ExtraProg1 - Notepad

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```
import java.util.Scanner;
class Player {
    int id;
    String name;
    int no_matches_played;
    int scores[];
    int totalScore;
    Scanner sc = new Scanner(System.in);

    public Player(){
        id = 0;
        name = null;
    }

    public Player(int Id,String Name,int matchesPlayed,int runs[]){
        this.id = Id;
        this.name = Name;
        this.no_matches_played = matchesPlayed;
        this.scores = runs;
    }

    void calcTotalScore(){
        for(int i=0;i<no_matches_played;i++){
            totalScore += scores[i];
        }
    }

    void SetDetails(){
        System.out.print("Enter Name of Player: ");
        this.name = sc.nextLine();
        System.out.println("Enter ID of Player: ");
        this.id = sc.nextInt();
        System.out.println("Enter number of matches played: ");
        this.no_matches_played = sc.nextInt();
        scores = new int[this.no_matches_played];
        for(int i=0;i<no_matches_played;i++){
            System.out.println("Enter score in match " + (i+1) + ": ");
            scores[i] = sc.nextInt();
            totalScore += scores[i];
        }
    }
}
```

```

ExtraProg1 - Notepad
File Edit Format View Help
System.out.println("Enter ID of Player: ");
this.id = sc.nextInt();
System.out.println("Enter number of matches played: ");
this.no_matches_played = sc.nextInt();
scores = new int[this.no_matches_played];
for(int i=0;i<no_matches_played;i++){
    System.out.println("Enter score in match " + (i+1) + ": ");
    scores[i] = sc.nextInt();
    totalScore += scores[i];
}
}

void getDetails(){
    System.out.println("ID: " + id + "\n Name: " + name + "\n Matches played: " + no_matches_played);
    for(int i=0;i<no_matches_played;i++){
        System.out.println("Score in match " + (i+1) + ": " + scores[i]);
    }
    System.out.println("Average score is " + calcAvg());
}

float calcAvg(){
    return ((float)totalScore/no_matches_played);
}

public class ExtraProg1 {
    public static void main(String args[]) {
        int scores[] = {50,100,70};
        Player p1 = new Player(27,"Akshay",3,scores);
        p1.calcTotalScore();
        Player p2 = new Player();
        p2.SetDetails();
        if(p1.calcAvg() > p2.calcAvg()){
            p1.getDetails();
        }else{
            p2.getDetails();
        }
    }
}

```

```
C:\WINDOWS\system32\cmd.exe
C:\Users\AKSHAY RASTOGI\Desktop\java prog>java ExtraProg1
Enter Name of Player: SACHIN
Enter ID of Player:
313
Enter number of matches played:
3
Enter score in match 1:
34
Enter score in match 2:
55
Enter score in match 3:
78
ID: 27
Name: Akshay
Matches played: 3
Score in match 1: 50
Score in match 2: 100
Score in match 3: 70
Average score is 73.333336

C:\Users\AKSHAY RASTOGI\Desktop\java prog>
```

```
1) import java.util.Scanner;  
class Player {  
    int id;  
    String name;  
    int no_matches_played;  
    int scores[];  
    int TotalScore;  
    Scanner sc = new Scanner(System.in);  
  
    public Player() {  
        id = 0;  
        name = null;  
    }  
  
    public Player(int Id, String Name, int matchesPlayed, int scores[]) {  
        this.id = Id;  
        this.name = Name;  
        this.no_matches_played = matchesPlayed;  
        this.scores = scores;  
    }  
  
    void CalcTotalScore() {  
        for (int i = 0; i < no_matches_played; i++) {  
            totalScore += scores[i];  
        }  
    }  
  
    void SetDetails() {  
        System.out.print("Enter the Name of Player: ");  
        this.name = sc.next();  
        System.out.print("Enter ID of the Player: ");  
        this.id = sc.nextInt();  
        System.out.print("Enter number of matches played: ");  
        this.no_matches_played = sc.nextInt();  
    }  
}
```

```

Scorer = new int [no_of_matches_played];
for (int i = 0; i < no_of_matches_played; i++) {
    System.out.println ("Enter Score in match " + (i+1) + ": ");
    scores[i] = sc.nextInt();
    totalScore += scores[i];
}

```

void getDetails () {

```

System.out.println ("ID: " + id + " Name: " + name + " No. of matches played: "
+ no_of_matches_played);
for (int i = 0; i < no_of_matches_played; i++) {
    System.out.println ("Score in match " + (i+1) + ": " + scores[i]);
}
System.out.println ("Average Score is " + calcAvg());
}
```

float calcAvg () {

```

return (float) totalScore / no_of_matches_played;
}
```

}

public class ExtraProg1 {

```

public static void main (String args[]) {
    int scores[] = {50, 100, 70};
    Player p1 = new Player (27, "Akashay", 3, scores);
    p1 .calcTotalScore ();
    Player p2 = new Player ();
    p2 .setDetails ();
    if (p1 .calcAvg > p2 .calcAvg ()) {
        p1 .getDetails ();
    } else {
        p2 .getDetails ();
    }
}
```

,