LAB-2 PRACTICE PROGRAMS

PROGRAM-1

INPUT:

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∄ X
C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_2\Playermain.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
                               × main.js
                                                                                                                                 × Playermain.java
           import java.util.Scanner;
                int id;
String name;
int no_matches_played;
                 int scores[];
                 float avg;
                  int i;
                 Scanner ss = new Scanner(System.in);
                 Player()
                       System.out.println("\n<--------ENTER PLAYER DETAILS------->\n");
System.out.println("Enter the player ID : ");
                       System.out.println("Enter the player NAME : ");
                       name = ss.next();
System.out.println("Enter the NUMBER OF MATCHES played : ");
                       no_matches_played = ss.nextInt();
scores = new int[no_matches_played];
System.out.println("Enter the SCORE of the player in each match :\n");
                           r(i = 0; i < no_matches_played; i++)
                             \label{eq:System.out.print("Enter the score in the MATCH "+(i+1)+" : "); scores[i] = ss.nextInt();
                 void calavg()
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                       int sum = 0;
for(i = 0; i < no_matches_played; i++)
{</pre>
                             sum += scores[i];
                        avg = ((float)sum) / no_matches_played;
                 void display()
                       System.out.println("Player ID : "+id);
System.out.println("Player NAME : "+name);
System.out.println("NUMBER OF MATCHES played : "+no_matches_played);
System.out.println("SCORES in all matches : ");
for(i = 0; i < no_matches_played; i++)
    System.out.print(scores[i]+"\t");
System.out.printf("\nAVERAGE score : %.2f", avg);
System.out.println():</pre>
                       System.out.println();
           class Playermain
                  public static void main(String[] args)
                       Player p1 = new Player();
                       p1.calavg();
                       Player p2 = r
p2.calavg();
                                          new Player();
                       System.out.println("\n<----DETAILS OF PLAYER 1---->"); p1.display();
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                        System.out.println("\n<----DETAILS OF PLAYER 2---->");
                        p2.display();
                       float avg1 = p1.avg;
float avg2 = p2.avg;
System.out.println("\n<-----DETAILS OF PLAYER WITH HIGHER AVERAGE----->");
                       if(avg1 > avg2)
    p1.display();
                            se if(avg2 > avg1)
  p2.display();
                              System.out.println("\n<-----BOTH PLAYERS HAVE THE SAME AVERAGE SCORE----->");
           3
```

OUTPUT:

```
Command Prompt
C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_2>javac Playermain.java
C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_2>java Playermain
<----->
Enter the player ID :
100
Enter the player NAME :
Ram
Enter the NUMBER OF MATCHES played :
3
Enter the SCORE of the player in each match :
Enter the score in the MATCH 1 : 50
Enter the score in the MATCH 2 : 60
Enter the score in the MATCH 3 : 70
<---->
Enter the player ID :
101
Enter the player NAME :
Shyam
Enter the NUMBER OF MATCHES played :
Enter the SCORE of the player in each match :
Enter the score in the MATCH 1 : 50
Enter the score in the MATCH 2 : 80
Enter the score in the MATCH 3 : 60
<---->DETAILS OF PLAYER 1---->
Player ID : 100
Player NAME : Ram
NUMBER OF MATCHES played : 3
SCORES in all matches :
50 60 70
AVERAGE score : 60.00
<---->DETAILS OF PLAYER 2---->
Player ID : 101
Player NAME : Shyam
NUMBER OF MATCHES played : 3
SCORES in all matches :
50 80 60
AVERAGE score : 63.33
<-----DETAILS OF PLAYER WITH HIGHER AVERAGE---->
Player ID : 101
Player NAME : Shyam
NUMBER OF MATCHES played : 3
SCORES in all matches :
      80
              60
AVERAGE score : 63.33
```

PROGRAM-2

INPUT:

```
OOJLAB\Lab_2\Bookmain.java - Sublime Text (UNREGISTERED)
                                                                                                                                                                                                                                                       File Edit Selection Find View Goto Tools Project Preferences Help
                                  × main.js
                                                                                                                                       × Playermain.java × Bookmain.java
          import java.util.Scanner;
            class Book
                   String bookid;
String booktitle;
                   int no_of_pages;
int year_of_pub;
String author;
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                   String publisher;
                   float price;
Scanner ss = new Scanner(System.in);
                   void accept()
                         System.out.println("Enter the book ID :");
                         System.out.println("Enter the book ID :");
bookid = ss.next();
System.out.println("Enter the TITLE of the book :");
booktitle = ss.next();
System.out.println("Enter the NUMBER OF PAGES in the book :");
no_of_pages = ss.nextInt();
System.out.println("Enter the YEAR OF PUBLICATION :");
year_of_pub = ss.nextInt();
System.out.println("Enter the name of the AUTHOR :");
suthon = ss.next();
                         author = ss.next();
System.out.println("Enter the name of the PUBLISHER :");
publisher = ss.next();
System.out.println("Enter the PRICE of the book :");
price = ss.nextFloat();
                   void srchauthor(Book b1, Book b2, Book b3)
                          System.out.print("\nEnter the name of the AUTHOR whose book you want to search for : ");
                          String auth = ss.next();
if(auth.equals(b1.author))
                          b1.display();
else if(auth.equals(b2.author))
                               b2.display();
se if(auth.equals(b3.author))
                                b3.display();
                                System.out.println("\nENTERED AUTHOR NAME DOES NOT MATCH TO ANY BOOK!!\n");
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                   void mostexp(Book b1, Book b2, Book b3)
                          if((b1.price > b2.price) && (b1.price > b3.price))
    System.out.println("THE MOST EXPENSIVE BOOK IS : "+b1.booktitle);
else if((b2.price > b1.price) && (b2.price > b3.price))
    System.out.println("THE MOST EXPENSIVE BOOK IS : "+b2.booktitle);
else if((b3.price > b1.price) && (b3.price > b2.price))
    System.out.println("THE MOST EXPENSIVE BOOK IS : "+b3.booktitle);
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                         void countbooks(Book b1, Book b2, Book b3)
                          int count = 0;
                         if(b1.year_of_pub == 2020)
                         if(b2.year_of_pub == 2020)
                                count++;
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                         if(b3.year_of_pub == 2020)
                         System.out.println("THE NUMBER OF BOOKS PUBLISHED IN 2020 IS: "+count);
System.out.println("\n<-----\n\n")
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                        "+year_of_pub);
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            class Bookmain
                         Scanner ss = new Scanner(System.in);
Book b = new Book();
```

OUTPUT:

```
C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_2>java Bookmain
<-----ENTER BOOK 1 DETAILS----->
Enter the book ID :
Enter the TITLE of the book :
Sherlock
Enter the NUMBER OF PAGES in the book :
200
Enter the YEAR OF PUBLICATION :
Enter the name of the AUTHOR :
James
Enter the name of the PUBLISHER :
Waterlily
Enter the PRICE of the book :
<-----ENTER BOOK 2 DETAILS----->
Enter the book ID :
Enter the TITLE of the book :
Goosebumps
Enter the NUMBER OF PAGES in the book :
300
Enter the YEAR OF PUBLICATION :
2018
Enter the name of the AUTHOR :
Enter the name of the PUBLISHER :
Mcgraw
Enter the PRICE of the book :
250
<---->
Enter the book ID :
333
Enter the TITLE of the book :
Heist
Enter the NUMBER OF PAGES in the book :
100
Enter the YEAR OF PUBLICATION :
2020
Enter the name of the AUTHOR :
Enter the name of the PUBLISHER :
MorningStar
Enter the PRICE of the book :
150
<---->
TITLE : Sherlock
NUMBER OF PAGES : 200
YEAR OF PUBLICATION : 2020
AUTHOR : James
PUBLISHER : Waterlily
PRICE : 199.0
```

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<>
TD 222
ID: 222 TITLE: Goosebumps
NUMBER OF PAGES : 300
YEAR OF PUBLICATION : 2018
AUTHOR : Williams
PUBLISHER : Mcgraw
PRICE: 250.0
<>
<book 3="" details=""></book>
<>
TD . 222
ID: 333 TITLE: Heist
NUMBER OF PAGES: 100
YEAR OF PUBLICATION : 2020
AUTHOR : John
PUBLISHER : MorningStar
PRICE : 150.0
<>
Enter the name of the AUTHOR whose book you want to search for : Williams
<>
ID : 222
TITLE : Goosebumps
NUMBER OF PAGES : 300
YEAR OF PUBLICATION : 2018
AUTHOR : Williams
PUBLISHER: Mcgraw
PRICE : 250.0
<>
THE MOST EXPENSIVE BOOK IS : Goosebumps
<>
THE NUMBER OF BOOKS PUBLISHED IN 2020 IS : 2
<>
C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_2>