Book.java | player.java

```java
import java.util.*;
class Player
{
    String id,name;
    double scores,avg;
    int no_matches_played;
    Player()
    {
        id="";
        name="";
        scores=0;
        no_matches_played=0;
    }
    void accept(int a)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter details of player "+a);
        System.out.println("Enter id");
        id=sc.next();
        System.out.println("Enter name");
        name=sc.next();
        System.out.println("Enter scores");
        scores=sc.nextDouble();
        System.out.println("Enter number of matches playec");
        no_matches_played=sc.nextInt();


    }
    void calculate()
    {
        if(no_matches_played!=0)
        avg=scores/no_matches_played;
        else
            System.out.println("Average=0");



    }
    void display()
    {
        System.out.println("Id= "+id);
        System.out.println("Name= "+name);
        System.out.println("Scores= "+scores);
        System.out.println("Number of matches played= "+no_matches_played);
        System.out.println("Average= "+avg);


    }


}
class Player1
{
    public static void main(String [] args)
    {
        Player ob1=new Player();
        Player ob2=new Player();
        ob1.accept(1);
        ob2.accept(2);
        ob1.calculate();
        ob2.calculate();
        if(ob1.avg==ob2.avg)
        {
            System.out.println("Both player 1 and player 2 average is same");
            ob1.display();
            System.out.println("------------------------------");
            ob2.display();

        }
        else if(ob1.avg>ob2.avg)
        {
            System.out.println("Player 1 has higher average");
            ob1.display();
        }
        else
        {
            System.out.println("Player 2 has higher average");
            ob2.display();
        }


    }
}
```

```
Arvinds-MacBook-Pro:ooj Arvind$ java Player1
enter details of player 1
Enter id
abcd
Enter name
aaa
Enter scores
40
Enter number of matches playec
4
enter details of player 2
Enter id
abcde
Enter name
aaaa
Enter scores
35
Enter number of matches playec
4
Player 1 has higher average
Id= abcd
Name= aaa
Scores= 40.0
Number of matches played= 4
Average= 10.0
Arvinds-MacBook-Pro:ooj Arvind$
```

Book.java

```java
import java.util.*;
import java.lang.*;
class Book{
    String bookid,booktitle,year_of_pub,author,publisher;
    int no_of_pages;
    double price;
    Scanner sc=new Scanner(System.in);
    Book()
    {
        bookid="";
        booktitle="";
        year_of_pub="";
        author="";
        publisher="";
        no_of_pages=0;
        price=0;
    }
    void book_details(int a)
    {
        System.out.println("enter bookid "+a);
        bookid=sc.next();
        System.out.println("enter booktitle "+a);
        booktitle=sc.next();
        System.out.println("enter year of publish "+a);
        year_of_pub=sc.next();
        System.out.println("enter name of author "+a);
        author=sc.next();
        System.out.println("enter the publisher "+a);
        publisher=sc.next();
        System.out.println("enter no of pages "+a);
        no_of_pages=sc.nextInt();
        System.out.println("enter the price "+a);
        price=sc.nextDouble();

    }
    void display_details()
    {
        System.out.println("--------------------------------");
        System.out.println("bookid:"+bookid);
        System.out.println("booktitle:"+booktitle);
        System.out.println("year of publish:"+year_of_pub);
        System.out.println("author:"+author);
```

Book.java

```java
        System.out.println("publisher:"+publisher);
        System.out.println("no of pages:"+no_of_pages);
        System.out.println("price"+price);


    }
    void author_name(Book b,Book b1,Book b2)
    {
        String name;
        System.out.println("enter author name");
        name=sc.next();
        if(name.equals(b.author))
            b.display_details();
        else if(name.equals(b1.author))
            b1.display_details();
        else if(name.equals(b2.author))
            b2.display_details();
        else
            System.out.println("invalid entry");

    }
    void most_expensive(Book b,Book b1,Book b2)
    {
        if(b.price>=b1.price&&b.price>=b2.price)
            System.out.println("most expensive book: "+b.booktitle);
        else if(b1.price>=b2.price&&b1.price>=b.price)
            System.out.println("most expensive book: "+b1.booktitle);
        else
            System.out.println("most expensive book: "+b2.booktitle);

    }
    void count(Book b,Book b1,Book b2)
    {
        int c=0;
        if(b.year_of_pub.equals("2020"))
            c++;
        if(b1.year_of_pub.equals("2020"))
            c++;
        if(b2.year_of_pub.equals("2020"))
            c++;
        System.out.println("the no of books published in 2020: "+c);

```

Book.java

```
            c++;
        System.out.println("the no of books published in 2020: "+c);
    }
    void least(Book b,Book b1,Book b2)
    {
        if(b.no_of_pages<=b1.no_of_pages&&b.no_of_pages<=b2.no_of_pages)
            System.out.println("least no of pages book: "+b.no_of_pages);
        else if(b1.no_of_pages<=b2.no_of_pages&&b1.no_of_pages<=b.no_of_pages)
            System.out.println("least no of pages book: "+b1.no_of_pages);
        else
            System.out.println("least no of pages book: "+b2.no_of_pages);

    }


}

class Book1
{
    public static void main(String args[])
    {
        Book b,b1,b2,b3;
        b=new Book();
        b1=new Book();
        b2=new Book();
        b3=new Book();
        b1.book_details(1);
        b2.book_details(2);
        b3.book_details(3);
        b.author_name(b1,b2,b3);
        b.most_expensive(b1,b2,b3);
        b.count(b1,b2,b3);
        b.least(b1,b2,b3);


    }
}
```

```
enter bookid 1
abcd
enter booktitle 1
kiterunner
enter year of publish 1
2020
enter name of author 1
khaled
enter the publisher 1
mcmillan
enter no of pages 1
300
enter the price 1
350
enter bookid 2
abcde
enter booktitle 2
mazerunner
enter year of publish 2
2020
enter name of author 2
aaaaa
enter the publisher 2
haaz
enter no of pages 2
500
enter the price 2
250
enter bookid 3
abcdef
enter booktitle 3
divergent
enter year of publish 3
2019
enter name of author 3
veronica
enter the publisher 3
newyork
enter no of pages 3
600
enter the price 3
350
enter author name
veronica
--------------------------------
bookid:abcdef
booktitle:divergent
year of publish:2019
author:veronica
publisher:newyork
no of pages:600
price350.0
most expensive book: kiterunner
the no of books published in 2020: 2
least no of pages book: 300
Arvinds-MacBook-Pro:ooj Arvind$
```