

```
1 package com.company;
2 import java.util.Scanner;
3 class Book{
4     String book_id;
5     String book_title;
6     int no_of_pages;
7     int year_of_pub;
8     String author;
9     String publisher;
10    int price;
11    Scanner s=new Scanner(System.in);
12    public void get_details()
13    {
14        System.out.println("Enter the book id:");
15        book_id=s.next();
16        s.nextLine();
17        System.out.println("Enter the title of the book:");
18        book_title=s.nextLine();
19        System.out.println("Enter the number of pages of the book:");
20        no_of_pages=s.nextInt();
21        System.out.println("Enter the year of publication of the book:");
22        year_of_pub=s.nextInt();
23        s.nextLine();
24        System.out.println("Enter the author of the book:");
25        author=s.nextLine();
26        System.out.println("Enter the publisher of the book:");
27        publisher=s.nextLine();
```

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28     System.out.println("Enter the cost of the book:");
29     price=s.nextInt();
30 }
31 public void display_details()
32 {
33     System.out.println();
34     System.out.println("Book id:"+book_id);
35     System.out.println("Book title:"+book_title);
36     System.out.println("The number of pages of the book:"+no_of_pages);
37     System.out.println("The year of publication of the book:"+year_of_pub);
38     System.out.println("The author of the book:"+author);
39     System.out.println("The publisher of the book:"+publisher);
40     System.out.println("The price of the book:"+price);
41 }
42 @ public void author_book(String auth)
43 {
44     if (auth.equals(author))
45     {
46         display_details();
47     }
48 }
49 @ public static String most_expensive_book(Book b1,Book b2,Book b3){
50     if ((b1.price>b2.price) && (b1.price>b3.price))
51     {
52         return b1.book_title;
53     }
54     else if ((b2.price>b1.price) && (b2.price>b3.price))

```



```

56         {
57             return b2.book_title;
58         }
59         else{
60             return b3.book_title;
61         }
62     }
63     public int publication_2020(){
64         if (year_of_pub==2020)
65         {
66             return 1;
67         }
68         else{
69             return 0;
70         }
71     }
72     @ public void least_pages(Book b2,Book b3){
73         if ((no_of_pages<b2.no_of_pages) && (no_of_pages<b3.no_of_pages))
74         {
75             display_details();
76         }
77         else if ((b2.no_of_pages<no_of_pages) && (b2.no_of_pages<b3.no_of_pages))
78         {
79             b2.display_details();
80         }
81         else{
82             b3.display_details();

```

```

83     }
84 }
85 public class lp2_2 {
86     public static void main(String args[])
87     {
88         Scanner s=new Scanner(System.in);
89         String au;
90         Book b1=new Book();
91         Book b2=new Book();
92         Book b3=new Book();
93         b1.get_details();
94         System.out.println("The details of the book1:");
95         b1.display_details();
96         b2.get_details();
97         System.out.println("The details of the book2:");
98         b2.display_details();
99         b3.get_details();
100        System.out.println("The details of the book3:");
101        b3.display_details();
102        System.out.println("Enter the author of the book whose details you want to display:");
103        au=s.nextLine();
104        b1.author_book(au);
105        b2.author_book(au);
106        b3.author_book(au);
107        System.out.println();
108        System.out.println("The most expensive book:"+Book.most_expensive_book(b1,b2,b3));

```



```

93     b1.get_details();
94     System.out.println("The details of the book1:");
95     b1.display_details();
96     b2.get_details();
97     System.out.println("The details of the book2:");
98     b2.display_details();
99     b3.get_details();
100    System.out.println("The details of the book3:");
101    b3.display_details();
102    System.out.println("Enter the author of the book whose details you want to display:");
103    au=s.nextLine();
104    b1.author_book(au);
105    b2.author_book(au);
106    b3.author_book(au);
107    System.out.println();
108    System.out.println("The most expensive book:"+Book.most_expensive_book(b1,b2,b3));
109    System.out.println();
110    System.out.println("The count of the books published in the year 2020 is: "+(b1.publication_2020()
111        +b2.publication_2020()+b3.publication_2020()));
112    System.out.println();
113    System.out.println("The details of the book with least number of pages:");
114    b1.least_pages(b2,b3);
115 }
116 }
117

```

```
"C:\Program Files\Java\jdk1.8.0_261\bin\java.exe" ...
```

```
Enter the book id:
```

```
ab
```

```
Enter the tile of the book:
```

```
The wings of fire
```

```
Enter the number of pages of the book:
```

```
120
```

```
Enter the year of publication of the book:
```

```
2020
```

```
Enter the author of the book:
```

```
Hari
```

```
Enter the publisher of the book:
```

```
Gadag
```

```
Enter the cost of the book:
```

```
130
```

```
The details of the book1:
```

```
Book id:ab
```

```
Book title:The wings of fire
```

```
The number of pages of the book:120
```

```
The year of publication of the book:2020
```

```
The author of the book:Hari
```

```
The publisher of the book:Gadag
```

```
The price of the book:130
```

```
Enter the book id:
```

```
ab
```

```
Enter the tile of the book:
```


The jungle book

Enter the number of pages of the book:

130

Enter the year of publication of the book:

2020

Enter the author of the book:

Bharath

Enter the publisher of the book:

Dharma

Enter the cost of the book:

400

The details of the book2:

Book id:cd

Book title:The jungle book

The number of pages of the book:130

The year of publication of the book:2020

The author of the book:Bharath

The publisher of the book:Dharma

The price of the book:400

Enter the book id:

cd

Enter the tile of the book:

The jungle

Enter the number of pages of the book:

130

Enter the year of publication of the book:

Enter the year of publication of the book:

1990

Enter the author of the book:

Neela

Enter the publisher of the book:

Mandya

Enter the cost of the book:

500

The details of the book3:

Book id:ef

Book title:The great

The number of pages of the book:340

The year of publication of the book:1990

The author of the book:Neela

The publisher of the book:Mandya

The price of the book:500

Enter the author of the book whose details you want to display:

Neela

Book id:ef

Book title:The great

The number of pages of the book:340

The year of publication of the book:1990

The author of the book:Neela

The publisher of the book:Mandya

The price of the book:500

🗑 The year of publication of the book:1990
The author of the book:Neela
The publisher of the book:Mandya
The price of the book:500

The most expensive book:The great

The count of the books published in the year 2020 is:2

The details of the book with least number of pages:

Book id:ab
Book title:The wings of fire
The number of pages of the book:120
The year of publication of the book:2020
The author of the book:Hari
The publisher of the book:Gadag
The price of the book:130

Process finished with exit code 0
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