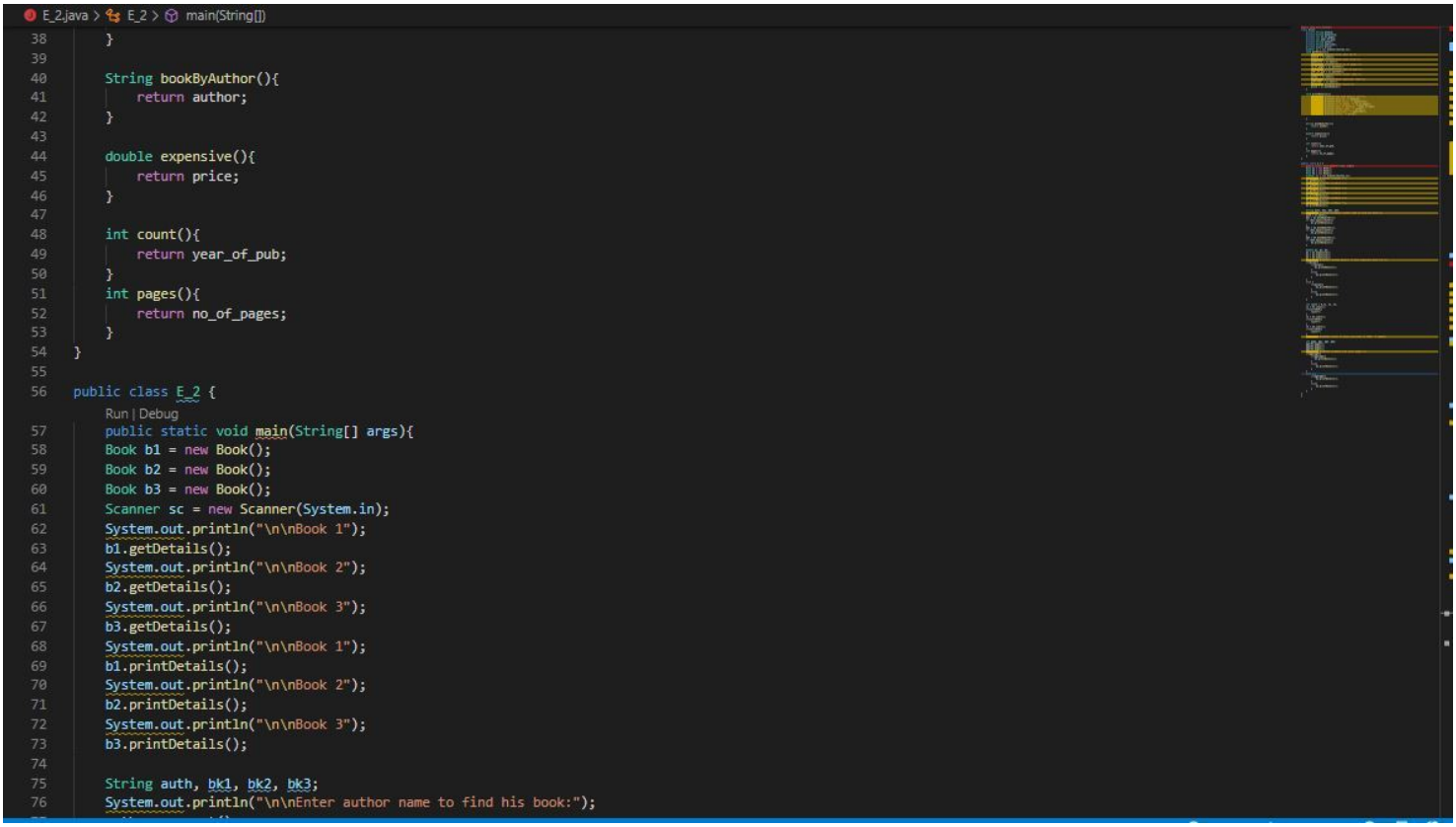
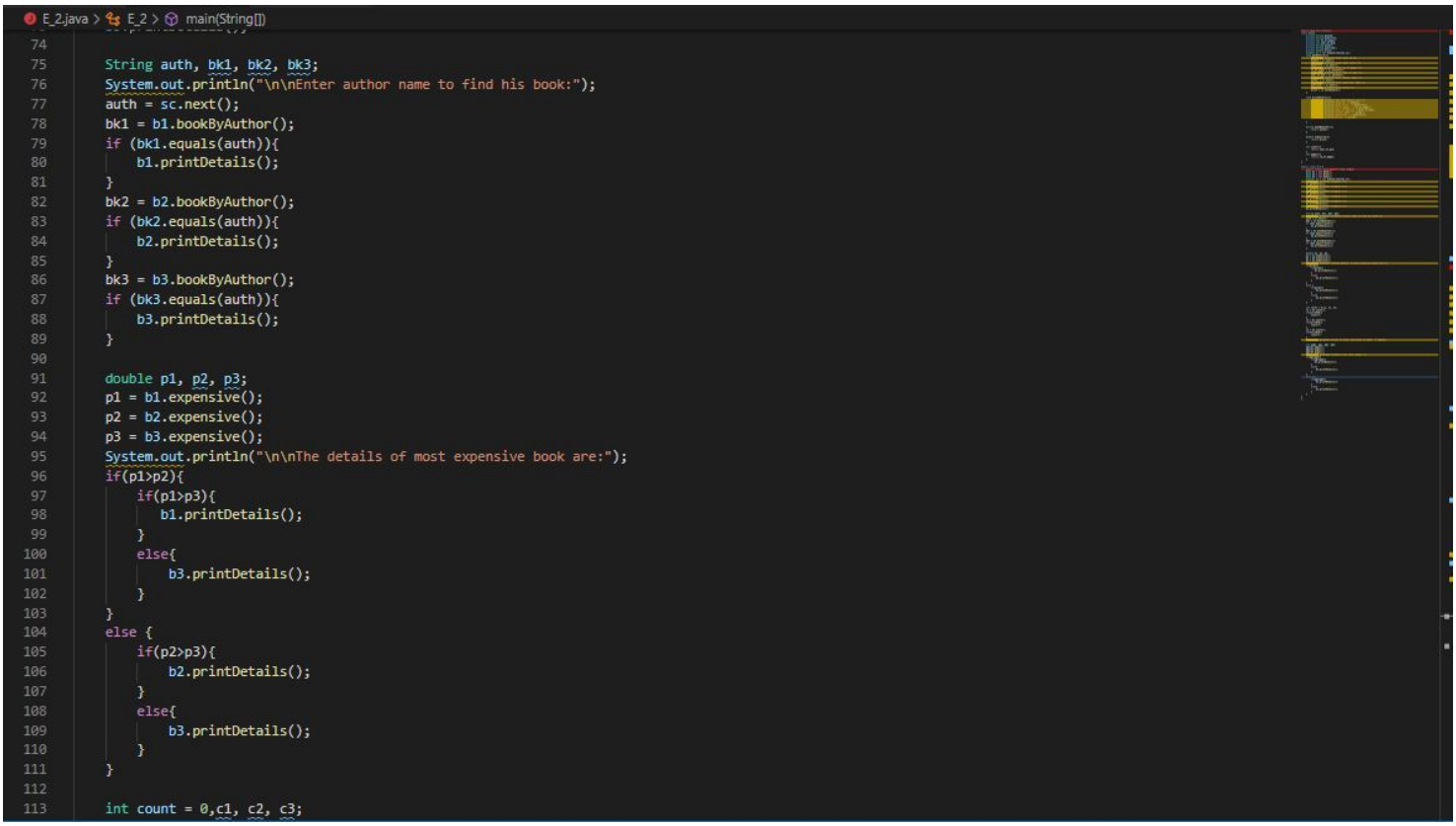
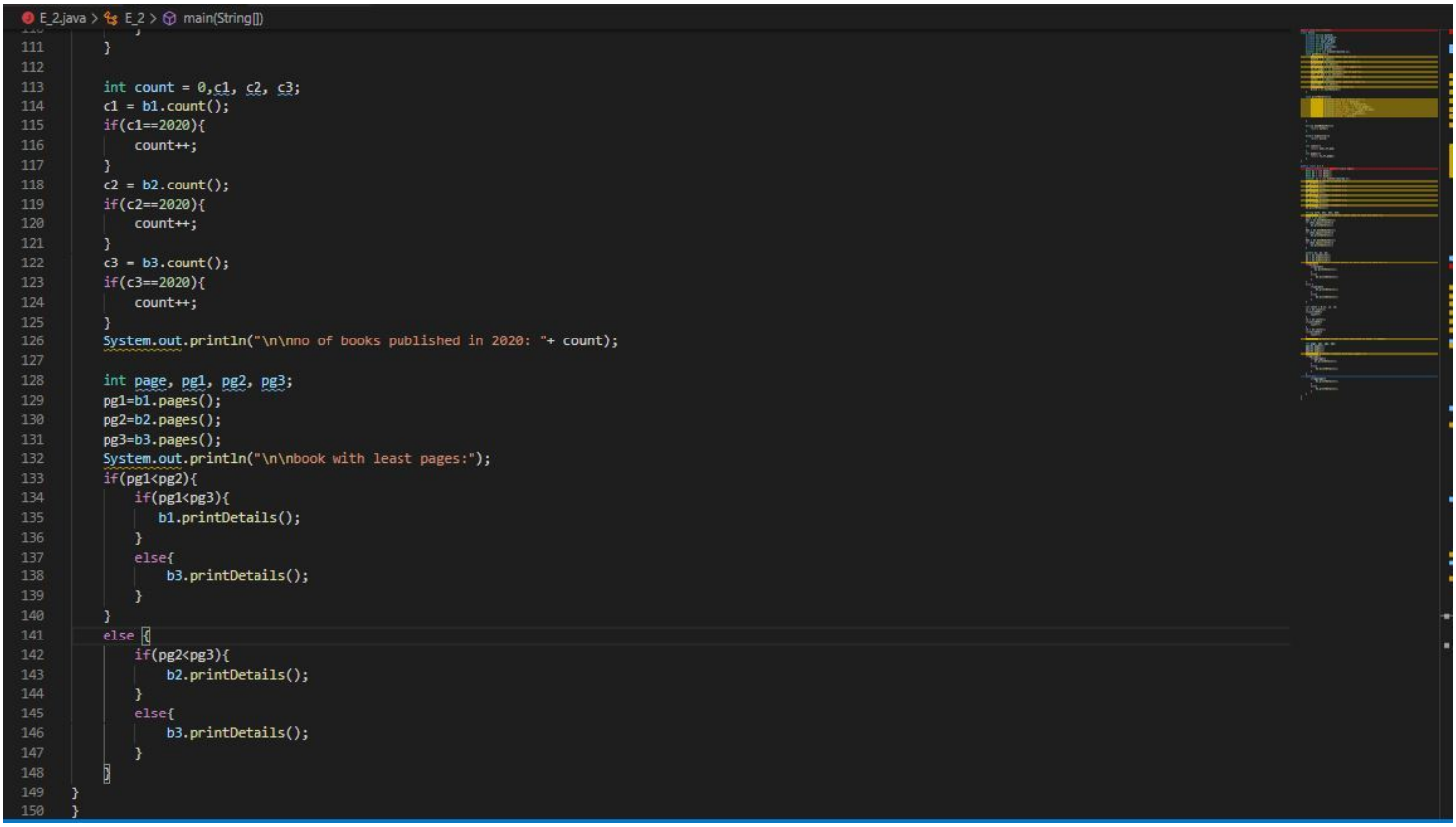
E_2.java > E_2 > main(String[])

```java
import java.util.Scanner;
class Book{
    private String bookid;
    private String booktitle;
    private int no_of_pages;
    private int year_of_pub;
    private String author;
    private String publisher;
    private double price;
    Scanner sc = new Scanner(System.in);
    void getDetails(){
        System.out.println("Enter book id:");
        bookid = sc.next();
        System.out.println("Enter book title:");
        booktitle = sc.next();
        System.out.println("Enter no of pages:");
        no_of_pages = sc.nextInt();
        System.out.println("Enter year of pub:");
        year_of_pub = sc.nextInt();
        System.out.println("Enter author name:");
        author = sc.next();
        System.out.println("Enter publisher name:");
        publisher = sc.next();
        System.out.println("Enter price:");
        price = sc.nextDouble();
    }

    void printDetails(){
        System.out.println("The book details are:");
        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: "+year_of_pub);
        System.out.println("author name: "+ author);
        System.out.println("publisher: "+ publisher);
        System.out.println("price: "+ price);

    }

    String bookByAuthor(){
```


E_2.java > E_2 > main(String[])
38 }
39
40 String bookByAuthor(){
41 return author;
42 }
43
44 double expensive(){
45 return price;
46 }
47
48 int count(){
49 return year_of_pub;
50 }
51 int pages(){
52 return no_of_pages;
53 }
54 }
55
56 public class E_2 {
Run | Debug
57 public static void main(String[] args){
58 Book b1 = new Book();
59 Book b2 = new Book();
60 Book b3 = new Book();
61 Scanner sc = new Scanner(System.in);
62 System.out.println("\n\nBook 1");
63 b1.getDetails();
64 System.out.println("\n\nBook 2");
65 b2.getDetails();
66 System.out.println("\n\nBook 3");
67 b3.getDetails();
68 System.out.println("\n\nBook 1");
69 b1.printDetails();
70 System.out.println("\n\nBook 2");
71 b2.printDetails();
72 System.out.println("\n\nBook 3");
73 b3.printDetails();
74
75 String auth, bk1, bk2, bk3;
76 System.out.println("\n\nEnter author name to find his book:");


E_2.java > E_2 > main(String[])
74
75 String auth, bk1, bk2, bk3;
76 System.out.println("\n\nEnter author name to find his book:");
77 auth = sc.next();
78 bk1 = b1.bookByAuthor();
79 if (bk1.equals(auth)){
80 b1.printDetails();
81 }
82 bk2 = b2.bookByAuthor();
83 if (bk2.equals(auth)){
84 b2.printDetails();
85 }
86 bk3 = b3.bookByAuthor();
87 if (bk3.equals(auth)){
88 b3.printDetails();
89 }
90
91 double p1, p2, p3;
92 p1 = b1.expensive();
93 p2 = b2.expensive();
94 p3 = b3.expensive();
95 System.out.println("\n\nThe details of most expensive book are:");
96 if(p1>p2){
97 if(p1>p3){
98 b1.printDetails();
99 }
100 else{
101 b3.printDetails();
102 }
103 }
104 else {
105 if(p2>p3){
106 b2.printDetails();
107 }
108 else{
109 b3.printDetails();
110 }
111 }
112
113 int count = 0,c1, c2, c3;


E_2.java > E_2 > main(String[])
111 }
112
113 int count = 0,c1, c2, c3;
114 c1 = b1.count();
115 if(c1==2020){
116 count++;
117 }
118 c2 = b2.count();
119 if(c2==2020){
120 count++;
121 }
122 c3 = b3.count();
123 if(c3==2020){
124 count++;
125 }
126 System.out.println("\n\nno of books published in 2020: "+ count);
127
128 int page, pg1, pg2, pg3;
129 pg1=b1.pages();
130 pg2=b2.pages();
131 pg3=b3.pages();
132 System.out.println("\n\nbook with least pages:");
133 if(pg1<pg2){
134 if(pg1<pg3){
135 b1.printDetails();
136 }
137 else{
138 b3.printDetails();
139 }
140 }
141 else {
142 if(pg2<pg3){
143 b2.printDetails();
144 }
145 else{
146 b3.printDetails();
147 }
148 }
149 }
150 }

```
E:\jdk8\bin\ooj lab>javac E_2.java

E:\jdk8\bin\ooj lab>java E_2


Book 1
Enter book id:
888
Enter book title:
computer
Enter no of pages:
2000
Enter year of pub:
2020
Enter author name:
niranjan
Enter publisher name:
mani
Enter price:
2999


Book 2
Enter book id:
889
Enter book title:
logic
Enter no of pages:
3052
Enter year of pub:
2009
Enter author name:
manikanth
Enter publisher name:
niru
Enter price:
5999


Book 3
Enter book id:
890
```

```
Book 3
Enter book id:
890
Enter book title:
magic
Enter no of pages:
4000
Enter year of pub:
2020
Enter author name:
tony
Enter publisher name:
stark
Enter price:
1999


Book 1
The book details are:
book id: 888
book title: computer
no of pages: 2000
year of publish: 2020
author name: niranjan
publisher: mani
price: 2999.0


Book 2
The book details are:
book id: 889
book title: logic
no of pages: 3052
year of publish: 2009
author name: manikanth
publisher: niru
price: 5999.0


Book 3
The book details are:
book id: 890
```

```
book title: logic
no of pages: 3052
year of publish: 2009
author name: manikanth
publisher: niru
price: 5999.0


Book 3
The book details are:
book id: 890
book title: magic
no of pages: 4000
year of publish: 2020
author name: tony
publisher: stark
price: 1999.0


Enter author name to find his book:
niranjan
The book details are:
book id: 888
book title: computer
no of pages: 2000
year of publish: 2020
author name: niranjan
publisher: mani
price: 2999.0


The details of most expensive book are:
The book details are:
book id: 889
book title: logic
no of pages: 3052
year of publish: 2009
author name: manikanth
publisher: niru
price: 5999.0


no of books published in 2020: 2
```

```
publisher: stark
price: 1999.0


Enter author name to find his book:
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The book details are:
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no of books published in 2020: 2


book with least pages:
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author name: niranjan
publisher: mani
price: 2999.0

E:\jdk8\bin\ooj lab>
```