

1 Inboxes (1.479) - kanala.cs19@b... x (19) WhatsApp x Online C Compiler - online editor x CSE B 2020 x +

onlinegdb.com/online\_c\_compiler#

Language Java

Main.java

```
1 import java.util.*;
2 import java.lang.*;
3 class Main1
4 {
5     String name;
6     String author;
7     double price;
8     int num_pages;
9     void getdetails()
10    {
11        Scanner x=new Scanner(System.in);
12        System.out.println("Enter Book Details");
13        System.out.println("Enter Book Name:");
14        name=x.next();
15        System.out.println("Enter the Author");
16        author=x.next();
17        System.out.println("Enter the Price of the book");
18        price=x.nextDouble();
19        System.out.println("Enter the number of pages in the book");
20        num_pages=x.nextInt();
21    }
22
23    public String toString()
24    {
25        return("BOOK DETAILS*"+ "\nThe name of the book : "+name+"\nThe author of the book : "+author+"\nThe price of the book: "+price+"\nNumber of pages in book
26    }
27 }
28
29 class Main
30 {
31     public static void main(String[] args)
32     {
33         int i,n;
34         Scanner x=new Scanner(System.in);
35         System.out.println("Enter the number of books");
36     }
```

input



The screenshot shows a web browser window with several tabs. The active tab is 'onlinegdb.com/online-c-compiler#'. The browser's address bar shows the URL 'onlinegdb.com/online-c-compiler#'. The page has a toolbar with buttons for 'Run', 'Debug', 'Stop', 'Share', and 'Save'. The language is set to 'Java'. The code editor displays a Java program with the following code:

```
17     System.out.println("Enter the Price of the book");
18     price=x.nextDouble();
19     System.out.println("Enter the number of pages in the book");
20     num_pages=x.nextInt();
21 }
22
23 public String toString()
24 {
25     return("BOOK DETAILS*"+ "\nThe name of the book : "+name+"\nThe author of the book : "+author+"\nThe price of the book: "+price+"\nNumber of pages in book
26 }
27
28 }
29 class Main
30 {
31     public static void main(String[] args)
32     {
33         int i,n;
34         Scanner x=new Scanner(System.in);
35         System.out.println("Enter the number of books");
36         n=x.nextInt();
37         Main1 b[]=new Main1[n];
38         for (i=0;i<n;i++)
39         {
40             b[i]=new Main1();
41             b[i].getdetails();
42         }
43         for(i=0;i<n;i++)
44         {
45             System.out.println(b[i]);
46         }
47     }
48 }
49
50 }
51 }
```

The code defines a class `Main1` (partially visible) with methods `getdetails()` and `toString()`. The `Main` class has a `main` method that uses a `Scanner` to read the number of books, creates an array of `Main1` objects, and prints their details.



Main.java

```
17      System.out.println("Enter the Price of the book");
18      price=x.nextDouble();
19      System.out.println("Enter the number of pages in the book");
20      num_pages=x.nextInt();
21
```

Enter the number of books

2

Enter Book Details

Enter Book Name:

aaaa

Enter the Author

bbbb

Enter the Price of the book

2000

Enter the number of pages in the book

500

Enter Book Details

Enter Book Name:

xxxxx

Enter the Author

yyyyyy

Enter the Price of the book

1000

Enter the number of pages in the book

350

BOOK DETAILS\*

The name of the book : aaaa

The author of the book :bbbb

The price of the book: 2000.0

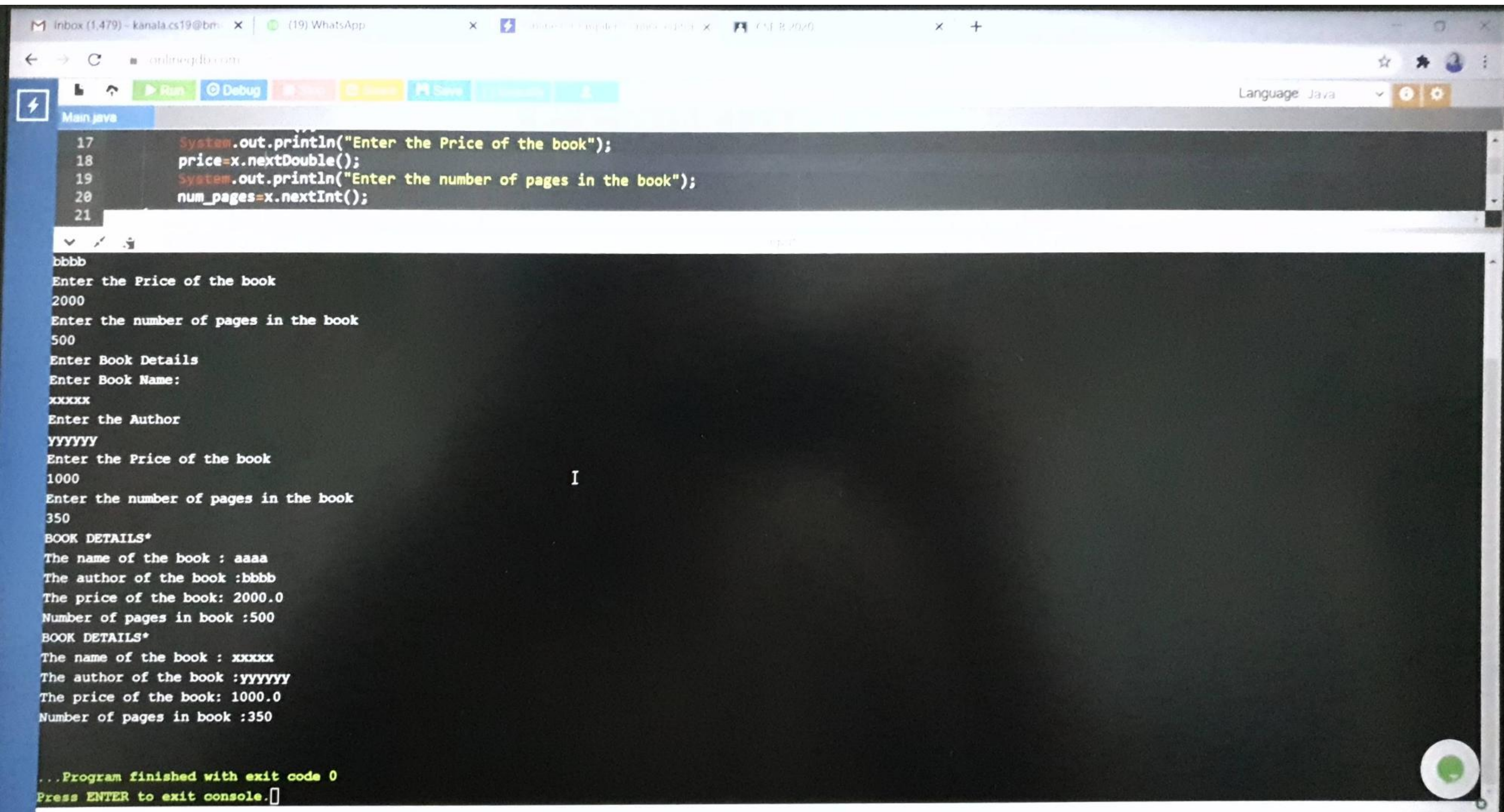
Number of pages in book :500

BOOK DETAILS\*

The name of the book : xxxxx

The author of the book :yyyyyy





The screenshot shows a web browser window with several tabs. The active tab is an online Java IDE. The code editor displays a Java program for collecting book details. The console shows the program's execution, including prompts for book name, author, price, and pages, followed by the collected data and a summary of book details.

```
17      System.out.println("Enter the Price of the book");
18      price=x.nextDouble();
19      System.out.println("Enter the number of pages in the book");
20      num_pages=x.nextInt();
21
```

bbb  
Enter the Price of the book  
2000  
Enter the number of pages in the book  
500  
Enter Book Details  
Enter Book Name:  
xxxxx  
Enter the Author  
yyyyyy  
Enter the Price of the book  
1000  
Enter the number of pages in the book  
350  
BOOK DETAILS\*  
The name of the book : aaaa  
The author of the book :bbbb  
The price of the book: 2000.0  
Number of pages in book :500  
BOOK DETAILS\*  
The name of the book : xxxxx  
The author of the book :yyyyyy  
The price of the book: 1000.0  
Number of pages in book :350  
...Program finished with exit code 0  
Press ENTER to exit console.



Lab - 4

Create a class book which contains four members: name, author, price, num-pages. Include a constructor to set the value for the members. Include methods to set and get the details of the objects. Include a toString() method that could display the complete details of the book. Develop a java program to create n book objects.

```
import java.util.*;
```

```
import java.lang.*;
```

```
class Main1
```

```
{
```

```
String name;
```

```
String author;
```

```
double price;
```

```
int num-pages;
```

```
void getdetails()
```

```
{
```

```
Scanner x = new
```

```
Scanner(System.in);
```

```
System.out.println("Enter Book details");
```

```
System.out.println("Enter Book Name:");
```

```
name = x.next();
```

```
System.out.println("Enter the Author");
```

```
author = x.next();
```

```
System.out.println("Enter the Price of the book");
```

```
price = x.nextDouble();
```

```
System.out.println("Enter The number of pages in the  
book");
```

```
num-pages = x.nextInt();
```

```
}
```



```
Public String toString ()
```

```
{
```

```
return ("Book Details * " + "\n the name of the book:"  
+ " + name + " \n the author the book: " + author +  
\n the price of the book: " + price + " + \n number of  
pages in book: " + num - pages);
```

```
}
```

```
}
```

```
class main
```

```
{
```

```
Public static void main (String[] args)
```

```
{
```

```
int i, n;
```

```
Scanner x = new
```

```
Scanner (System.in);
```

```
System.out.println ("Enter the number of books");
```

```
n = x.nextInt();
```

```
main[] b[] = new main[n];
```

```
for (i=0; i<n; i++)
```

```
{
```

```
b[i] = new main();
```

```
b[i].getdetails();
```

```
}
```

```
for (i=0; i<n; i++)
```

```
{
```

```
System.out.println(b[i]);
```

```
}
```

```
}
```

```
}
```



Output:-

Enter the number of books

2

Enter book Details

Enter Book Name:

aaaa

Enter the Author

bbbb

Enter the Price of the book

2000

Enter the number of pages in the book

500

Enter Book Detail

Enter Book Name:

xxxxx

Enter the Author

yyyyyy

Enter the Price of the book

1000

Enter the number of pages in the book

350

Book Details \*

The name of the book : aaaa

The author of the book : bbbb

The price of the book : 2000.0

Number of pages in book : 500

Book Details \*

The name of the book : ~~xxxxx~~

The author of the book : yyyyyy



The price of the book : 1000.0

Number of pages in book : 350