

### Week 3

3. Create a class Book which contains four members: name, author, price, num\_pages. Include a constructor to set the values 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.

Week 3  
3. Create a class Book which contains four members: name, author, price, no page. Include a constructor to set the values for members. Include methods to set and get the details of the object. Include toString() method that could display the complete details of the book. Develop java program to create n book object.

```
import java.util.Scanner;
```

```
class book {
```

```
    String name;  
    String author;  
    int pages;  
    double price;
```

```
book() {}
```

```
Scanner SS = new Scanner(System.in);
```

```
void set() {
```

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

```
    name = SS.nextLine();
```

```
    System.out.println("Enter Author name: ");
```

```
    author = SS.nextLine();
```

```
    System.out.println("Enter number of pages: ");
```

```
    pages = SS.nextInt();
```

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

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

```
}
```

```
public String toString() {
```

```
    return ("Name: " + name + "\n Author: " + author +  
           "\n Number of pages: " + pages + "\n the price is: " +  
           price);
```

```
}
```

```
class Lab3 {
```

```
    public static void main (String[] args) {
```

```
        Scanner SS = new Scanner(System.in);
```

```
        int n;
```

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

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

```
        Book B[] = new Book[n];
```

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

```
            B[i] = new Book();
```

```
            B[i].set();
```

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

```
        }
```

```
    }
```

### Output

Enter the number of books:

2

Enter Book name:

OOT observation

Enter the price of the book:

800

Enter the number of pages:

100

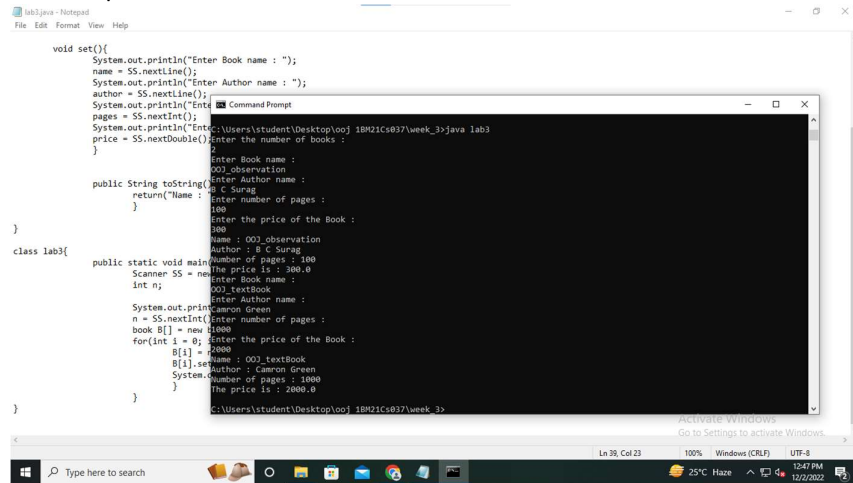
Name: OOT-observation

author: B.C. Swamy

Price: 800

Pages: 100

## OUTPUTp



The screenshot shows a Java IDE with a file named 'lab3.java'. The code defines a 'Book' class with methods for setting and getting book details, and a 'main' method that creates an array of books and prints their details. A 'Command Prompt' window is open, showing the execution of 'java lab3'. The output displays the prompts and user inputs for creating three books: '001\_observation' by 'C. Surag' with 100 pages and a price of 2000.0, '002\_textBook' by 'Camron Green' with 1000 pages and a price of 2000.0, and '003\_textBook' by 'Camron Green' with 1000 pages and a price of 2000.0.

```
void set(){
    System.out.println("Enter Book name : ");
    name = SS.nextLine();
    System.out.println("Enter Author name : ");
    author = SS.nextLine();
    System.out.println("Enter the number of books : ");
    pages = SS.nextInt();
    System.out.println("Enter the price of the Book : ");
    price = SS.nextDouble();
}

public String toString(){
    return("Name : " + C_Surag +
        "Author : " + C_Surag +
        "Number of pages : " + 100 +
        "The price is : " + 200.0);
}

class lab3{
    public static void main(String[] args){
        Scanner SS = new Scanner(System.in);
        int n;
        System.out.println("Enter the number of books : ");
        n = SS.nextInt();
        Book B[] = new Book[n];
        for(int i = 0; i < n; i++){
            B[i] = new Book();
            System.out.println("Enter Book name : ");
            B[i].setName(Camron Green);
            System.out.println("Enter Author name : ");
            B[i].setAuthor(Camron Green);
            System.out.println("Enter the number of pages : ");
            B[i].setPages(1000);
            System.out.println("Enter the price of the Book : ");
            B[i].setPrice(2000.0);
        }
    }
}
```

```
C:\Users\student\Desktop\loop 1BM21Cs037\week_3>java lab3
Enter Book name : 001_observation
Enter Author name : C Surag
Enter the number of books : 100
Enter the price of the Book : 2000
Name : 001_observation
Author : C Surag
Number of pages : 100
The price is : 200.0
Enter Book name : 002_textBook
Enter Author name : Camron Green
Enter the number of books : 1000
Enter the price of the Book : 2000
Name : 002_textBook
Author : Camron Green
Number of pages : 1000
The price is : 2000.0
Enter Book name : 003_textBook
Enter Author name : Camron Green
Enter the number of books : 1000
Enter the price of the Book : 2000
Name : 003_textBook
Author : Camron Green
Number of pages : 1000
The price is : 2000.0
C:\Users\student\Desktop\loop 1BM21Cs037\week_3>
```