

Lab program 3

```
import java.util.Scanner;

class Book {

    private String name;
    private String author;
    private double price;
    private int num_pages;

    public Book(String name, String author, double price, int num_pages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.num_pages = num_pages;
    }

    public String getName() {
        return name;
    }

    public String getAuthor() {
        return author;
    }

    public double getPrice() {
        return price;
    }

    public int getNumPages() {
        return num_pages;
    }

    public void setName(String name) {
        this.name = name;
    }
}
```

```
public void setAuthor(String author) {  
    this.author = author;  
}  
  
public void setPrice(double price) {  
    this.price = price;  
}  
  
public void setNumPages(int num_pages) {  
    this.num_pages = num_pages;  
}  
  
public String toString() {  
    return "Book Details:\n" +  
        " Name: " + name + "\n" +  
        " Author: " + author + "\n" +  
        " Price: $" + String.format("%.2f", price) + "\n" +  
        " Pages: " + num_pages;  
}  
}  
  
public class BookDemo {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        System.out.print("How many books do you want to create? ");  
        int n = scanner.nextInt();  
        scanner.nextLine();  
        Book[] books = new Book[n];  
        for (int i = 0; i < n; i++) {  
            System.out.println("\n--- Enter Details for Book " + (i + 1) + " ---");  
            System.out.print("Enter Name: ");  
            String name = scanner.nextLine();  
        }  
    }  
}
```

```

System.out.print("Enter Author: ");

String author = scanner.nextLine();

System.out.print("Enter Price: ");

double price = scanner.nextDouble();

System.out.print("Enter Number of Pages: ");

int num_pages = scanner.nextInt();

scanner.nextLine();

books[i] = new Book(name, author, price, num_pages);

}

System.out.println(" Displaying All Book Details");

for (int i = 0; i < books.length; i++) {

System.out.println(books[i]);

}

scanner.close();

}

}

```

The screenshot shows a Java code editor interface with a terminal window open. The terminal displays the execution of a Java program named BookDemo. The program prompts the user to enter details for two books, which are then displayed. On the right side of the interface, there is an AI integration panel titled "Build with Agent". This panel includes a message bubble icon, a status message "AI responses may be inaccurate.", and a button "Generate Agent Instructions" with the sub-instruction "onboard AI onto your codebase". Below this is a "SUGGESTED ACTIONS" section with a "Build Workspace" button and a "Show Config" button. A red box highlights the "Build Workspace" button. At the bottom of the interface, there are status indicators for "Ln 82, Col 69", "Spaces: 4", "UTF-8", "CRLF", and a Java file icon.

```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> javac BookDemo.java
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> java BookDemo
How many books do you want to create? 2
--- Enter Details for Book 1 ---
Enter Name: Normal People
Enter Author: Sally Rooney
Enter Price: 500
Enter Number of Pages: 600

--- Enter Details for Book 2 ---
Enter Name: Wuthering Heights
Enter Author: Emily Bronte
Enter Price: 300
Enter Number of Pages: 800
Displaying All Book Details
Book Details:
  Name: Normal People
  Author: Sally Rooney
  Price: $500.00
  Pages: 600
-----
Book Details:
  Name: Wuthering Heights
  Author: Emily Bronte
  Price: $300.00
  Pages: 800
-----
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260>

```