LAB9

Question:

• Implement the concept of Swing in your domain.

Code:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.util.ArrayList;
import java.util.List;
class Book {
       private String title;
       private String author;
       private double price;
       public Book(String title, String author, double price) {
       this.title = title;
       this.author = author;
       this.price = price;
       @Override
       public String toString() {
       return "Title: " + title + ", Author: " + author + ", Price: " + price;
class BookstoreGUI extends JFrame {
       private List<Book> books;
       private JTextField titleField;
       private JTextField authorField;
       private JTextField priceField;
       private JTextArea displayArea;
```

```
public BookstoreGUI() {
super("Bookstore Application");
books = new ArrayList<>();
setLayout(new FlowLayout());
titleField = new JTextField(20);
authorField = new JTextField(20);
priceField = new JTextField(10);
displayArea = new JTextArea(10, 30);
displayArea.setEditable(false);
JButton addButton = new JButton("Add Book");
JButton displayButton = new JButton("Display Books");
JButton exitButton = new JButton("Exit");
addButton.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent e) {
       addBook();
});
displayButton.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent e) {
       displayBooks();
});
exitButton.addActionListener(new ActionListener() {
@Override
public void actionPerformed(ActionEvent e) {
       System.exit(0);
```

```
add(new JLabel("Title: "));
add(titleField);
add(new JLabel("Author: "));
add(authorField);
add(new JLabel("Price: "));
add(priceField);
add(addButton);
add(displayButton);
add(exitButton);
add(new JScrollPane(displayArea));
setSize(800, 300);
setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
setLocationRelativeTo(null);
setVisible(true);
private void addBook() {
String title = titleField.getText();
String author = authorField.getText();
double price = Double.parseDouble(priceField.getText());
Book newBook = new Book(title, author, price);
books.add(newBook);
titleField.setText("");
authorField.setText("");
priceField.setText("");
JOptionPane.showMessageDialog(this, "Book added successfully!");
private void displayBooks() {
displayArea.setText("");
if (books.isEmpty()) {
```

Screenshot:

