

Department of Computer Science and Engineering  
Course Code: CSE 202  
Course Title: OOP Lab I (Java)

Project Topic :Book Store PoS System

### **Team Member Information**

Nusrat Ahmmed Ekra	22201251
Umma Hasnine	22201269
Nusrat Nabil	22201254

## **Book Store PoS System**

For a book store, we must build a Point of Selling (PoS) system that will allow an administrator to add, remove, and change the availability of "books," as well as change the pricing and display the books that are currently in stock.

Additionally, users of this system can add, remove, and see their own cart details. Additional features offered by this system include the ability to register as a new customer or create an

account, verify existing accounts of other customers as an administrator, and check if a customer has already registered or not.

The following are the class file diagrams that will enable this system:

### **Customer Class**

```
private int customerID  
private String customerName  
private int pass  
private String customerPhoneNumber
```

```
Customer(String, int, String, int)  
getter and setter methods for all attributes  
toString()
```

### **InvalidCustomerPhoneNumberException extends Exception**

```
InvalidCustomerPhoneNumberException(String CustomerPhoneNumber)
```

### **InvalidAdminPasswordException extends Exception**

```
InvalidAdminPasswordException(String password)
```

## **Book Class**

```
private int bookID  
private String bookName  
    private double price  
private String authorName  
    private int noOfCopies  
        private int copies
```

```
Book(int,String,double,String,int)  
    Book(String,String)  
    Book(String,String,double,int)  
getter and setter methods for all attributes  
    viewUserCartDetails():String  
        toString()
```

## **Interface CustomerRegistration**

```
void registerCustomer() throws  
InvalidCustomerPhoneNumberException
```

## **Interface DiscountProvider**

```
double applyDiscount()
```

## **BookCart extends AdminCart implements CustomerRegistration,DiscountProvider**

```
    double percentage  
    Customer customer  
    ArrayList<Book>books  
    ArrayList<Customer>customerList
```

```
public BookCart(int bookID,StringbookName,double price,  
               String authorName,intnoOfCopies)
```

```
intcheckcustomerRegisteredOrNot(String name,int id)
```

```
void registerCustomer(String name, int id, String phoneNumber, int pass)  
throws InvalidCustomerPhoneNumberException
```

```
void addltem(String bookName,String authorName,int quantity)
```

```
void removeOneItem(Book book)
```

```
void removeSomecopiesOfBook(Book book, int quantity)
```

```
void clearCart()
```

```
double getTotalPrice()
```

```
void applyDiscount()
```

```
void getCartItems()
```

## **AdminCart extends Book**

```
static final String Password
```

```
static ArrayList<Book> stock
```

```
public AdminCart(int bookID,StringbookName,double price,  
                String authorName,intnoOfCopies)
```

```
booleancan_access(String pass) throws InvalidAdminPasswordException
```

```
void addBook(int bookID, String bookName, double price, String  
authorName, int noOfCopies)  
  
void removeSpecificAmountOfBook(String bookName, String  
authorName, int quantity)  
  
void removeOneBook( String bookName, String authorName)  
void clearCart()  
void updateInfoOfBook(String bookName, String authorName)  
void getStockItems()  
toString()
```

## PoS

```
main()  
customerSystem()
```

**The functionalities which will be provided in the main method are:**

**Functionalities :**

**As an Admin :**

1. To add gadgets in stock
2. To remove gadgets in stock
3. To update Price of a product
4. display the books which is available in the Stock

**As a User :**

1. To Register A New Account
2. To Check Existing Customer Account
3. To Add Product to Cart(If available in Stock)
4. To Remove Product from Cart
5. to Get Total Price
6. To Apply Discount(Fixed by admin)
7. To View Cart Details

# Implementation part

## 1.class:Customer

package principle;

```
public class Book {  
    private int bookID;  
    private String bookName;  
    private double price;  
    private String authorName;  
    private int noOfCopies;  
    private int copies;  
  
    //using this constructor for owner to add book in the stock  
    public Book(int bookID, String bookName, double price, String authorName,int  
noOfCopies) {  
        this.bookID = bookID;  
        this.bookName = bookName;  
        this.price = price;  
        this.authorName = authorName;  
        this.noOfCopies =noOfCopies;  
    }  
    // emnei use korsi.  
    public Book(String bookName, String authorName) {  
        this.bookName =bookName;  
        this.authorName=authorName;  
    }  
    //using this constructor for user to add book in the customer cart  
    public Book(String bookName, String authorName,double price, int copies) {  
        this.bookName =bookName;  
        this.authorName=authorName;  
        this.price = price;  
        this.copies =copies;  
    }  
  
    // start of all getter and setter method for all attributes.  
    public int getCopies() {  
        return copies;  
    }
```

```
public void setCopies(int copies) {
    this.copies = copies;
}

public int getBookID() {
    return bookID;
}

public void setBookID(int bookID) {
    this.bookID = bookID;
}

public String getBookName() {
    return bookName;
}

public void setBookName(String bookName) {
    this.bookName = bookName;
}

public double getPrice() {
    return price;
}

public void setPrice(double price) {
    this.price = price;
}

public String getAuthorName() {
    return authorName;
}

public void setAuthorName(String authorName) {
    this.authorName = authorName;
}

public int getNoOfCopies() {
    return noOfCopies;
}
```

```

public void setNoOfCopies(int noOfCopies) {
    this.noOfCopies = noOfCopies;
}
// end of all getter and setter method for all attributes.

//for user cart detail;
public String viewUserCartDetails()
{
    return( "bookName=" + bookName +"\n"+ "price of one book =" + price
+" \n" + "authorName=" + authorName+"\n"+ "No of copies= "+copies);
}

@Override
public String toString() {
    return ("bookID=" + bookID +"\n"+ "bookName=" + bookName +"\n"+
"price=" + price +"\n"+ "authorName=" + authorName
                + "\n"+ "noOfCopies=" + noOfCopies);
}
}

```

## 2.class:Customer

package principle;

```

public class Customer {
    private int customerID;
    private String customerName;
    private int pass;
    private String customerPhoneNumber;

//using this constructor for creating new customer account
    public Customer(int customerID, String customerName, String
customerPhoneNumber,int pass) {

        this.customerID = customerID;
        this.customerName = customerName;
        this.customerPhoneNumber = customerPhoneNumber;
        this.pass = pass;
    }
}

```

```
}

// start of all getter and setter method for all attributes.
public int getPass() {
    return pass;
}

public void setPass(int pass) {
    this.pass = pass;
}

public int getCustomerID(){
return customerID;
}

public void setCustomerID(int customerID) {
this.customerID = customerID;
}

public String getCustomerName() {
return customerName;
}

public void setCustomerName(String customerName) {
this.customerName = customerName;
}

public String getCustomerPhoneNumber() {
    return customerPhoneNumber;
}

public void setCustomerPhoneNumber(String customerPhoneNumber) {
    this.customerPhoneNumber = customerPhoneNumber;
}

// end of all getter and setter method for all attributes.
```

```
@Override
public String toString() {
    return ("customerID=" + customerID +"\n"+ "customerName=" +
customerName +"\n"+ "customerPhoneNumber=" +
+ customerPhoneNumber); } }
```

### **3.class: InvalidAdminPasswordException**

```
package principle;

public class InvalidAdminPasswordException extends Exception{

    public InvalidAdminPasswordException(String password) {
        super("Wrong Admin Password! Please, Provide the correct password.");
    }
}
```

### **4.class: InvalidCustomerPhoneNumberException**

```
package principle;

public class InvalidCustomerPhoneNumberException extends Exception{

    public InvalidCustomerPhoneNumberException(String CustomerPhoneNumber) {
        super(CustomerPhoneNumber + " is invalid phone number. Please provide phone
number with 11 digit.");
    }
}
```

### **5.Interface: CustomerRegistration**

```
package principle;

public interface CustomerRegistration {

    public abstract void registerCustomer(String name ,int id,String phoneNumber,int
pass)throws InvalidCustomerPhoneNumberException;
}
```

### **6. Interface: DiscountProvider**

```
package principle;

public interface DiscountProvider {
    public abstract void applyDiscount(); }
```

## 7.class:AdminCart( for bookstore owner)

```
package principle;
import java.util.ArrayList;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class AdminCart extends Book {
    private static final String password= "uap" ;
    int c=0;
    Scanner scan =new Scanner(System.in);
    public static ArrayList<Book> stock = new ArrayList<Book>();

    public AdminCart(int bookID, String bookName, double price, String authorName, int
noOfCopies) {
        super(bookID, bookName, price, authorName, noOfCopies);
    }

    //canAccessOrNot
    public boolean can_access(String pass)throws InvalidAdminPasswordException
    {
        if(password.equalsIgnoreCase(pass))
        {
            return true;
        }
        else
        {
            throw new InvalidAdminPasswordException(password);
        }
    }

    void addBook(int bookID, String bookName, double price, String authorName, int
noOfCopies)
    { int c=0;
        for(int i=0;i<stock.size();i++)
        {
            if(stock.get(i).getBookName().equalsIgnoreCase(bookName) &&
stock.get(i).getAuthorName().equalsIgnoreCase(authorName))
            {
                int s=stock.get(i).getNoOfCopies();
                stock.get(i).setNoOfCopies(s+1);
            }
        }
    }
}
```

```

        s=s+noOfCopies;
        stock.get(i).setNoOfCopies(s);
        c=1;
    }
}
if(c==0)
{
    Book b1 = new Book(bookID,bookName,price,authorName,noOfCopies);
    stock.add(b1);
}
getStockItems();
}

void removeSpecificAmountOfBook(String bookName,String authorName,int quantity)
{
    int c=0;
    for(int i=0;i<stock.size();i++)
    {
        if(stock.get(i).getBookName().equalsIgnoreCase(bookName) &&
stock.get(i).getAuthorName().equalsIgnoreCase(authorName))
        {
            int s=stock.get(i).getNoOfCopies();
            if(s<quantity)
            {
                JOptionPane.showMessageDialog(null, " Can't remove "+quantity+" as
Only copies: "+s+" of book name: "+bookName+",author name: "+authorName+" is
available in the stock");
                c=1;
            }
            else
            {
                s=s-quantity;
                stock.get(i).setNoOfCopies(s);
                JOptionPane.showMessageDialog(null, "\n"+ "after removing specific amount
of copies,updated info:"+ "\n"
                +stock.get(i).toString());
                c=1;
            }
        }
    }
}

```

```

        }
        if(c==0)
        {
            JOptionPane.showMessageDialog(null, "book name: "+bookName+" author
name: "+authorName+" is unavailable in the stock");
        }
    }
    void removeOneBook( String bookName, String authorName)
    {
        int c=0;
        for( int i=0;i<stock.size();i++)
        {
            if(stock.get(i).getBookName().equalsIgnoreCase(bookName)&&
stock.get(i).getAuthorName().equalsIgnoreCase(authorName))
            {
                stock.remove(stock.get(i));
                c=1;
            }
        }
        if(c==0)
        {
            JOptionPane.showMessageDialog(null, "book name: "+bookName+"author
name: "+authorName+"is unavailable in the stock");
        }
        getStockItems();
    }
    public void clearCart()
    {
        stock.clear();
    }

    void updateInfoOfBook(String bookName,String authorName)
    { int c=0;
        for(int i=0;i<stock.size();i++)
        {
            if(stock.get(i).getBookName().equalsIgnoreCase(bookName) &&
stock.get(i).getAuthorName().equalsIgnoreCase(authorName))
            {
                double d=stock.get(i).getPrice();

```

```

        int in = Integer.parseInt(JOptionPane.showInputDialog("1.Want to increase
price.\n2.Want to Decrease price.\nEnter your choice:"));
        double pr = Double.parseDouble(JOptionPane.showInputDialog("enter
price:"));
        if(in==1)
        {
            d=d+pr;
            stock.get(i).setPrice(d);
            JOptionPane.showMessageDialog(null, "after
update:\n"+stock.get(i).toString());
            c=1;
        }
        else if(in==2)
        {
            d=d-pr;
            stock.get(i).setPrice(d);
            JOptionPane.showMessageDialog(null, "after
update:\n"+stock.get(i).toString());
            c=1;
        }
    }
    if(c==0)
    {
        JOptionPane.showMessageDialog(null, "Book name: "+bookName+" Author
name: "+authorName+" is unavailable in the stock");
    }
}
@Override
public String toString() {
    return ("getBookID()=" + getBookID() + "\n" + "getBookName()=" + getBookName()
+ "\n" + "getPrice()=" + getPrice()
+ "\n" + "getAuthorName()=" + getAuthorName() + "\n" + "getNoOfCopies()=" +
getNoOfCopies());
}
public void getStockItems()
{
    if(stock.size()== 0)
    {
        JOptionPane.showMessageDialog(null, "Stock is empty");
    }
}

```

```

        }
    else
    {
        String stockItems = "Stock's items:\n";
        for(int i=0;i<stock.size();i++)
        {
            stockItems += stock.get(i).toString() + "\n\n";
        }
        JOptionPane.showMessageDialog(null, stockItems);
    }
}
}

```

## **8.class:BookCart( for user or customer )**

```

package principle;
import java.util.ArrayList;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class BookCart extends AdminCart implements DiscountProvider,
CustomerRegistration {

    int i, j;
    Scanner s = new Scanner(System.in);
    Scanner p = new Scanner(System.in);

    public BookCart(int bookID, String bookName, double price, String authorName, int
noOfCopies) {
        super(bookID, bookName, price, authorName, noOfCopies);
    }

    public static ArrayList<Book> books = new ArrayList<Book>();
    ArrayList<Customer> customerlist = new ArrayList<>();

    // for getting customer cart books details
    public void getCartItems() {
        if (books.size() == 0) {
            JOptionPane.showMessageDialog(null, "Cart is empty");
        } else {

```

```

        String cartItems = "Cart's items:\n";
        for (int i = 0; i < books.size(); i++) {
            cartItems += books.get(i).viewUserCartDetails() + "\n\n";
        }
        JOptionPane.showMessageDialog(null, cartItems);
    }
}

// for customer registration
@Override
public void registerCustomer(String name, int id, String phoneNumber, int pass)
throws InvalidCustomerPhoneNumberException {
    if (phoneNumber.length() != 11) {
        throw new InvalidCustomerPhoneNumberException(phoneNumber);
    } else {
        Customer customer1 = new Customer(id, name, phoneNumber, pass);
        customerlist.add(customer1);
        for (Customer c : customerlist) {
            if (c.getCustomerID() == id) {
                JOptionPane.showMessageDialog(null, c.toString());
            }
        }
    }
}

public int checkcustomerRegisteredOrNot(String name, int id) {
    int a = 1, b = 2, c = 3;
    for (int i = 0; i < customerlist.size(); i++) {
        if (customerlist.get(i).getCustomerID() == id &&
customerlist.get(i).getCustomerName().equalsIgnoreCase(name)) {
            String pass = JOptionPane.showInputDialog("Enter password:");
            if (Integer.parseInt(pass) == customerlist.get(i).getPass()) {
                return a;
            } else {
                JOptionPane.showMessageDialog(null, "Invalid password");
                return b;
            }
        }
    }
    return c;
}

```

```

}

@Override
// to apply discount
public void applyDiscount() {
    double price = getTotalPrice();
    JOptionPane.showMessageDialog(null, "Your total price: " + price);
    double discountPrice;
    if (price < 1500) {
        JOptionPane.showMessageDialog(null, "Your total price range is less than
$1500. So you got 5% discount.");
        discountPrice = price - ((price * 5) / 100);
    } else if (price >= 1500 && price <= 2000) {
        JOptionPane.showMessageDialog(null, "Your total price range is ($1500-
$2000). So you got 10% discount.");
        discountPrice = price - ((price * 10) / 100);
    } else if (price > 2000 && price <= 3000) {
        JOptionPane.showMessageDialog(null, "Your total price range is ($1500-
$2000). So you got 10% discount.");
        discountPrice = price - ((price * 15) / 100);
    } else {
        JOptionPane.showMessageDialog(null, "Your total price range is more than
$3000. So you got 20% discount.");
        discountPrice = price - ((price * 20) / 100);
    }
    JOptionPane.showMessageDialog(null, "Discount Price: " + discountPrice);
}

// for adding books to customer cart.
public void addItem(String bookName, String authorName, int quantity) {
    int c = 0,noOfCopies=0;
    for (int i=0;i<stock.size();i++)
    {
        noOfCopies = stock.get(i).getNoOfCopies();
    }
    for (Book b : books) {

        if (b.getBookName().equalsIgnoreCase(bookName) &&
b.getAuthorName().equalsIgnoreCase(authorName)) {

```

```

if(noOfCopies<quantity)
{
    c=1;
    JOptionPane.showMessageDialog(null, "Can't added to to the cart
copies as Only copies: "+noOfCopies+" of book name: "+bookName+" ,author name:
"+authorName+"is available in the stock");

}
else
{
    int copies = b.getCopies();
    copies = copies + quantity;
    b.setCopies(copies);
    c = 1;
}
}

if (c == 0) {
    int p = 0;
    for (Book b1 : AdminCart.stock) {
        if (b1.getBookName().equalsIgnoreCase(bookName) &&
b1.getAuthorName().equalsIgnoreCase(authorName)) {

            if(noOfCopies<quantity)
            { p=1;
                JOptionPane.showMessageDialog(null, " Can't added to the cart as
Only copies: "+noOfCopies+" of book name: "+bookName+" ,author name:
"+authorName+" is available in the stock");
            }
            else
            {
                b1.setCopies(quantity);
                int copy = b1.getCopies();
                Book b2 = new Book(bookName, authorName, b1.getPrice(), copy);
                books.add(b2);
                int updatedCopies = b1.getNoOfCopies() - quantity;
                b1.setNoOfCopies(updatedCopies);
                c = 1;
                p = 1;
            }
        }
    }
}

```

```

        JOptionPane.showMessageDialog(null, "Successfully added book to the
cart:\n" + b1.viewUserCartDetails());
    }
}
}
if (p == 0) {
    JOptionPane.showMessageDialog(null, "Book name: " + bookName + ",
Author name: " + authorName + " is unavailable in the stock");
}
}

// to remove one book from customer cart.
public void removeOneItem(Book book) {
    int c = 0, copies = 0;
    for (i = 0; i < books.size(); i++) {
        if (books.get(i).getBookName().equalsIgnoreCase(book.getBookName()) &&
books.get(i).getAuthorName().equalsIgnoreCase(book.getAuthorName())) {
            copies = books.get(i).getCopies();
            books.remove(books.get(i));
            c = 1;
        }
    }
    if (c == 0) {
        JOptionPane.showMessageDialog(null, "Book name: " + book.getBookName() +
", Author name: " + book.getAuthorName() + " is unavailable in the stock");
    }
    for (Book books : AdminCart.stock) {
        if (books.getBookName().equalsIgnoreCase(book.getBookName()) &&
books.getAuthorName().equalsIgnoreCase(book.getAuthorName())) {
            int s = books.getNoOfCopies();
            s = s + copies;
            books.setNoOfCopies(s);
        }
    }
}

// to remove some copies of a specific book from customer cart.
public void removeSomecopiesOfBook(Book book, int quantity) {
    int c = 0;

```

```

for (i = 0; i < books.size(); i++) {
    if (books.get(i).getBookName().equalsIgnoreCase(book.getBookName()) &&
books.get(i).getAuthorName().equalsIgnoreCase(book.getAuthorName())) {

        int p = books.get(i).getCopies();
        if(p<quantity) {
            JOptionPane.showMessageDialog(null, " Can't remove "+quantity+" as
Only copies: "+p+" of book name: "+book.getBookName()+" ,author name:
"+book.getAuthorName()+" is available in the customer cart");
            c=1;
        }
        else
        {
            p = p - quantity;
            books.get(i).setCopies(p);
            if (books.get(i).getCopies() == 0) {
                books.remove(books.get(i));
                JOptionPane.showMessageDialog(null, "Successfully remove book name: "
+ book.getBookName());
            }
        }
        JOptionPane.showMessageDialog(null, "Update info of customer cart:\n");
        getCartItems();
        c = 1;
    }
}
if (c == 0) {
    JOptionPane.showMessageDialog(null, "Book name: " + book.getBookName() +
", Author name: " + book.getAuthorName() + " is unavailable in the stock");
}
for (Book books : AdminCart.stock) {
    if (books.getBookName().equalsIgnoreCase(book.getBookName()) &&
books.getAuthorName().equalsIgnoreCase(book.getAuthorName())) {
        int s = books.getNoOfCopies();
        s = s + quantity;
        books.setNoOfCopies(s);
    }
}
}

```

```

// to clear the whole cart.
public void clearCart() {
    books.clear();
}

// to get total price.
public double getTotalPrice() {
    double totalprice = 0.0;
    for (i = 0; i < books.size(); i++) {
        totalprice = totalprice + ((books.get(i).getCopies()) * (books.get(i).getPrice())));
    }
    return totalprice;
}
}

```

## 9.class: PoS

```

package principle;
import javax.swing.JOptionPane;
public class PoS {

// user cart management system
public static void customerSystem() {
    int n;
    BookCart cart = new BookCart(0, null, 0.0, null, 0);
    AdminCart admin = new AdminCart(0, null, 0.0, null, 0);

    while (true) {

String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove
Book from Cart.\n3. Get Total price.\n4. Apply Discount.\n5. View Cart Details.\n6.
Exit.", "Menu For User", JOptionPane.PLAIN_MESSAGE);

try {
    n = Integer.parseInt(input4);

    if (n == 1) {
JOptionPane.showMessageDialog(null, "///Add Book///");
JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");
admin.getStockItems();

```

```

String name = JOptionPane.showInputDialog("Enter book name:");
String authorName = JOptionPane.showInputDialog("Enter author name:");

try {

    int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies"));
    cart.addItem(name, authorName, Copies);
}
catch (NumberFormatException e)
{
    JOptionPane.showMessageDialog(null, "Please enter a valid number.");
}
}

else if (n == 2)
{
    String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n"
        + "1. Remove one book from the cart.\n"
        + "2. Remove some copies of the
specific book from the cart.\n"+3. Remove all books from the cart.", "Menu Of Removing
Book From Cart", JOptionPane.PLAIN_MESSAGE);

    int choice = Integer.parseInt(input2);
    if (choice == 1) {
        String bookName = JOptionPane.showInputDialog("Enter book name:");
        String authorName = JOptionPane.showInputDialog("Enter author name:");
        Book b = new Book(bookName, authorName);
        cart.removeOneItem(b);
        cart.getCartItems();
    }
    else if (choice == 2)
    {
        String bookName = JOptionPane.showInputDialog("Enter book name:");
        String authorName = JOptionPane.showInputDialog("Enter author name:");
        int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that
product that's you want to remove:"));
        Book b = new Book(bookName, authorName);
        cart.removeSomecopiesOfBook(b, q);
    }
    else if (choice == 3) {
}
}

```

```

        cart.clearCart();
        JOptionPane.showMessageDialog(null, "All books remove successfully");
    }
}
else if (n == 3)
{
    JOptionPane.showMessageDialog(null, "///Get total price///");
    JOptionPane.showMessageDialog(null, "Total Price : " + cart.getTotalPrice());
}
else if (n == 4)
{
    JOptionPane.showMessageDialog(null, "///Applying Discount///");
    .applyDiscount();
}
else if (n == 5)
{
    cart.getCartItems();
}
else if (n == 6)
{
    JOptionPane.showMessageDialog(null, "Exiting...");
    break;
}
Else
{
    JOptionPane.showMessageDialog(null, "\nInvalid choice. Please enter a valid option.");
}
} catch (NumberFormatException e) {

    JOptionPane.showMessageDialog(null, "Please enter a valid choice.");
}

}

public static void main(String[] args) {
    BookCart cart = new BookCart(0, null, 0.0, null, 0);
    AdminCart admin = new AdminCart(0, null, 0.0, null, 0);

    while (true) {

```

```

String input = JOptionPane.showInputDialog(null, "1. Owner account access\n+ "2. User
account access\n"+ "3. Exit"+ "\nEnter Your choice:", "Menu Of BookStore",
JOptionPane.PLAIN_MESSAGE);

try {
    int choice= Integer.parseInt(input);

    if (choice == 1) {
        try {
            String password = JOptionPane.showInputDialog("Enter owner password:");
            if (admin.can_access(password)) {

                while (true) {

String input1 = JOptionPane.showInputDialog(null, "1. Add books to store\n+ "2.
Remove books from store\n"+ "3. Update book's information\n+ "4. Display the
books\n"+ "5. Exit","Menu For Admin",JOptionPane.PLAIN_MESSAGE);

        try {
            int choice1 = Integer.parseInt(input1);

            (choice1 == 1) {

                JOptionPane.showMessageDialog(null, "///Add Book to the store///");
                int ID = Integer.parseInt(JOptionPane.showInputDialog("Enter book ID:"));
                String name = JOptionPane.showInputDialog("Enter book name:");
                String authorName = JOptionPane.showInputDialog("Enter author name:");
                double price = Double.parseDouble(JOptionPane.showInputDialog("Enter book
price:"));
                int noOfCopies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of
copies:"));
                admin.addBook(ID, name, price, authorName, noOfCopies);

            }

        } else if (choice1 == 2)
        {
            input3 = JOptionPane.showInputDialog(null, "///Removing book from //\n"+ "1. Remove
one book from the store.\n"+ "2. Remove some copies of the specific book from the
store.\n"+ "3. Remove all books from the store.", "Menu For Removing Book From
Store",JOptionPane.PLAIN_MESSAGE);
        }
    }
}

```

```

try {
choice2 = Integer.parseInt(input3);

if (choice2 == 1) {

String bookName = JOptionPane.showInputDialog("Enter book name:");

String authorName = JOptionPane.showInputDialog("Enter author name:");
admin.removeOneBook(bookName, authorName);

}

else if (choice2 == 2)
{
String bookName = JOptionPane.showInputDialog("Enter book name:");
String authorName = JOptionPane.showInputDialog("Enter author name:");
int k = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product
that's you want to remove:"));

    admin.removeSpecificAmountOfBook(bookName, authorName, k);
} else if (choice2 == 3)
{
admin.clearCart();
JOptionPane.showMessageDialog(null, "All books remove successfully");
}
}

catch (NumberFormatException e)
{
    JOptionPane.showMessageDialog(null, "Please enter a valid choice.");
}
}

else if (choice1 == 3) {
String bookName = JOptionPane.showInputDialog("Enter book name:");
String authorName = JOptionPane.showInputDialog("Enter author name:");
admin.updateInfoOfBook(bookName, authorName);
} else if (choice1 == 4) {
admin.getStockItems();

} else if (choice1 == 5) {
JOptionPane.showMessageDialog(null, "Exiting...");
cart.clearCart();
break;
}

```

```

        }
    else
    {
        JOptionPane.showMessageDialog(null, "Invalid choice...");
    }
}catch (NumberFormatException e) {
    JOptionPane.showMessageDialog(null, "Please enter a valid choice.");
}
}

else {
    JOptionPane.showMessageDialog(null, "Invalid access.");
}

catch (InvalidAdminPasswordException e) {
    JOptionPane.showMessageDialog(null, e.getMessage());
}

} else if (choice == 2)
{
    JOptionPane.showMessageDialog(null, "Check Customer (New or Existing)");
    int Id = Integer.parseInt(JOptionPane.showInputDialog("Enter customer id:"));
    String name = JOptionPane.showInputDialog("Enter customer name:");

    int b = cart.checkcustomerRegisteredOrNot(name, Id);

    if (b == 1) {
        JOptionPane.showMessageDialog(null, "Customer already existed");
        customerSystem();
    } else if (b == 3) {
        try {
            int Id1 = 0, pass = 0;
            String name1 = null, phone1 = null;

            JOptionPane.showMessageDialog(null, "The customer isn't registered. Register now");
            Id1 = Integer.parseInt(JOptionPane.showInputDialog("Enter customer id:"));
            name1 = JOptionPane.showInputDialog("Enter customer name:");
            pass = Integer.parseInt(JOptionPane.showInputDialog("Enter password:"));
            phone1 = JOptionPane.showInputDialog("Enter customer phone number:");
            cart.registerCustomer(name1, Id1, phone1, pass);
            customerSystem();
        }
    }
}
}

```

```

        catch (InvalidCustomerPhoneNumberException e) {
            JOptionPane.showMessageDialog(null, e.getMessage());
        }
    }
} else if (choice == 3)
{
    JOptionPane.showMessageDialog(null, "Exiting...");
    break;
} else
{
    JOptionPane.showMessageDialog(null, "Invalid choice.");
}

}catch (NumberFormatException e)
{
    JOptionPane.showMessageDialog(null, "Please enter a valid choice.");
}
}
}

```

## Input/Output

The screenshot shows the Eclipse IDE interface with a Java project named 'bookstore' open. The code in the main class handles user input for managing a book cart. A modal dialog box titled 'Menu Of BookStore' is overlaid on the IDE, prompting the user to enter their choice between three options: 1. Owner account access, 2. User account access, or 3. Exit. The user has selected option 1. The IDE status bar at the bottom indicates the current date and time as May 16, 2024, 11:39:18 F.

```

4 // user cart management system
5 public static void customerSystem() {
6     int n;
7     BookCart cart = new BookCart(0, null, 0.0, null, 0);
8     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9     while (true) {
10        String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total\n");
11        try {
12            n = Integer.parseInt(input4);
13        } catch (NumberFormatException e) {
14            JOptionPane.showMessageDialog(null, "Please enter a valid choice.");
15        }
16        if (n == 1) {
17            JOptionPane.showInputDialog(null, "Enter book name:");
18            String name = JOptionPane.showInputDialog(null, "Enter author name:");
19            String authorNa
20            String authorNa
21            int Copies
22            cart.addBook(name, authorNa, Copies);
23            JOptionPane.showMessageDialog(null, "Book added successfully!");
24        } else if (n == 2) {
25            int choice = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.\n3. Remove all books from the cart.");
26            if (choice == 1) {
27                cart.removeBook();
28            } else if (choice == 2) {
29                String input2 = JOptionPane.showInputDialog(null, "Enter number of copies:");
30                int copies = Integer.parseInt(input2);
31                cart.removeBooks(copies);
32            } else if (choice == 3) {
33                cart.removeAllBooks();
34            }
35        } else if (n == 3) {
36            JOptionPane.showMessageDialog(null, "Total Price: " + cart.getTotalPrice());
        }
    }
}

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() {  

6 >     int n;  

7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >     while (true) {  

10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >             try {  

12 >                 n = Integer.parseInt(input4);  

13 >                 if (n == 1) {  

14 >                     JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >                     JOptionPane.showMessageDialog(null, "///Available Books in the store /// ");  

16 >                     admin.getStock();  

17 >                     String name = JOptionPane.showInputDialog("Enter book name:");  

18 >                     String authorName = JOptionPane.showInputDialog("Enter author name:");  

19 >                     String copies = JOptionPane.showInputDialog("Enter number of copies:");  

20 >                     try {  

21 >                         int Copies = Integer.parseInt(copies);  

22 >                         cart.addBook(name, authorName, Copies);  

23 >                     } catch (NumberFormatException e) {  

24 >                         JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

25 >                     }  

26 >                 } else if (n == 2) {  

27 >                     String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

28 >                         + "1. Remove one book from the cart.\n"  

29 >                         + "2. Remove some copies of the specific book from the cart.\n"  

30 >                         + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

31 >                     int choice = Integer.parseInt(input2);  

32 >                     if (choice == 1) {  

33 >                         JOptionPane.showMessageDialog(null, "Enter book name:");  

34 >                         JOptionPane.showMessageDialog(null, "Enter number of copies:");  

35 >                     }  

36 >                 }  

37 >             } catch (Exception e) {  

38 >                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

39 >             }  

40 >         }  

41 >     }  

42 > }

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() {  

6 >     int n;  

7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >     while (true) {  

10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >             try {  

12 >                 n = Integer.parseInt(input4);  

13 >                 if (n == 1) {  

14 >                     JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >                     JOptionPane.showMessageDialog(null, "///Available Books in the store /// ");  

16 >                     admin.getStock();  

17 >                     String name = JOptionPane.showInputDialog("Enter book name:");  

18 >                     String authorName = JOptionPane.showInputDialog("Enter author name:");  

19 >                     String copies = JOptionPane.showInputDialog("Enter number of copies:");  

20 >                     try {  

21 >                         int Copies = Integer.parseInt(copies);  

22 >                         cart.addBook(name, authorName, Copies);  

23 >                     } catch (NumberFormatException e) {  

24 >                         JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

25 >                     }  

26 >                 } else if (n == 2) {  

27 >                     String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

28 >                         + "1. Remove one book from the cart.\n"  

29 >                         + "2. Remove some copies of the specific book from the cart.\n"  

30 >                         + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

31 >                     int choice = Integer.parseInt(input2);  

32 >                     if (choice == 1) {  

33 >                         JOptionPane.showMessageDialog(null, "Enter book name:");  

34 >                         JOptionPane.showMessageDialog(null, "Enter number of copies:");  

35 >                     }  

36 >                 }  

37 >             } catch (Exception e) {  

38 >                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

39 >             }  

40 >         }  

41 >     }  

42 > }

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 >> public static void customerSystem() {  

6 >>     int n;  

7 >>     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >>     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >>     while (true) {  

10 >>         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >>         try {  

12 >>             n = Integer.parseInt(input4);  

13 >>             if (n == 1) {  

14 >>                 JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >>                 JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");  

16 >>                 admin.getStock();  

17 >>                 String name = J  

18 >>                 String authorNa  

19 >>                 String bookname = JOptionPane.showInputDialog("Enter book name:");  

20 >>                 String authorname = JOptionPane.showInputDialog("Enter author name:");  

21 >>                 JOptionPane.showMessageDialog(null, "///Add Book to the store///");  

22 >>                 try {  

23 >>                     int Copies  

24 >>                     cart.addItem(name, authorname, Copies);  

25 >>                 } catch (NumberFormatException e) {  

26 >>                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

27 >>                 }  

28 >>             } else if (n == 2) {  

29 >>                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

30 >>                 + "1. Remove one book from the cart.\n"  

31 >>                 + "2. Remove some copies of the specific book from the cart.\n"  

32 >>                 + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

33 >>                 int choice = Integer.parseInt(input2);  

34 >>                 if (choice == 1) {  

35 >>                     JOptionPane.showMessageDialog(null, "Book Removed");  

36 >>                 }  


```

Problems Declaration Search Console X

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.jst.openjkhotspot.jre.full.win32.x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 16, 2024, 11:40:15 F

88°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer BookCart.java PoSJava X
AdminCart.java BookCart.java PoSJava X
4 > // user cart management system
5 >> public static void customerSystem() {  

6 >>     int n;  

7 >>     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >>     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >>     while (true) {  

10 >>         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >>         try {  

12 >>             n = Integer.parseInt(input4);  

13 >>             if (n == 1) {  

14 >>                 JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >>                 JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");  

16 >>                 admin.getStock();  

17 >>                 String name = J  

18 >>                 String authorNa  

19 >>                 String bookname = JOptionPane.showInputDialog("Enter book name:");  

20 >>                 String authorname = JOptionPane.showInputDialog("Enter author name:");  

21 >>                 JOptionPane.showMessageDialog(null, "///Add Book to the store///");  

22 >>                 try {  

23 >>                     int Copies  

24 >>                     cart.addItem(name, authorname, Copies);  

25 >>                 } catch (NumberFormatException e) {  

26 >>                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

27 >>                 }  

28 >>             } else if (n == 2) {  

29 >>                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

30 >>                 + "1. Remove one book from the cart.\n"  

31 >>                 + "2. Remove some copies of the specific book from the cart.\n"  

32 >>                 + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

33 >>                 int choice = Integer.parseInt(input2);  

34 >>                 if (choice == 1) {  

35 >>                     JOptionPane.showMessageDialog(null, "Book Removed");  

36 >>                 }  


```

Problems Declaration Search Console X

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.jst.openjkhotspot.jre.full.win32.x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 16, 2024, 11:40:15 F

88°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() {  

6 >     int n;  

7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >     while (true) {  

10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >             try {  

12 >                 n = Integer.parseInt(input4);  

13 >                 if (n == 1) {  

14 >                     JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >                     JOptionPane.showMessageDialog(null, "///Available Books in the store /// ");  

16 >                     admin.getStock();  

17 >                     String name = JOptionPane.showInputDialog("Enter book name:");  

18 >                     String authorName = JOptionPane.showInputDialog("Enter author name:");  

19 >                     String copies = JOptionPane.showInputDialog("Enter number of copies:");  

20 >                     try {  

21 >                         int Copies = Integer.parseInt(copies);  

22 >                         cart.addBook(name, authorName, Copies);  

23 >                     } catch (NumberFormatException e) {  

24 >                         JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

25 >                     }  

26 >                 } else if (n == 2) {  

27 >                     String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

28 >                         + "1. Remove one book from the cart.\n"  

29 >                         + "2. Remove some copies of the specific book from the cart.\n"  

30 >                         + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);  

31 >                     int choice = Integer.parseInt(input2);  

32 >                     if (choice == 1) {  

33 >                         JOptionPane.showMessageDialog(null, "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

34 >                     } else if (choice == 2) {  

35 >                         cart.removeBook();  

36 >                     } else if (choice == 3) {  

37 >                         cart.removeAllBooks();  

38 >                     }  

39 >                 }  

40 >             } catch (Exception e) {  

41 >                 e.printStackTrace();  

42 >             }  

43 >         }  

44 >     }  

45 > }

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() {  

6 >     int n;  

7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >     while (true) {  

10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >             try {  

12 >                 n = Integer.parseInt(input4);  

13 >                 if (n == 1) {  

14 >                     JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >                     JOptionPane.showMessageDialog(null, "///Available Books in the store /// ");  

16 >                     admin.getStock();  

17 >                     String name = JOptionPane.showInputDialog("Enter book name:");  

18 >                     String authorName = JOptionPane.showInputDialog("Enter author name:");  

19 >                     String copies = JOptionPane.showInputDialog("Enter number of copies:");  

20 >                     try {  

21 >                         int Copies = Integer.parseInt(copies);  

22 >                         cart.addBook(name, authorName, Copies);  

23 >                     } catch (NumberFormatException e) {  

24 >                         JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

25 >                     }  

26 >                 } else if (n == 2) {  

27 >                     String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

28 >                         + "1. Remove one book from the cart.\n"  

29 >                         + "2. Remove some copies of the specific book from the cart.\n"  

30 >                         + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);  

31 >                     int choice = Integer.parseInt(input2);  

32 >                     if (choice == 1) {  

33 >                         JOptionPane.showMessageDialog(null, "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

34 >                     } else if (choice == 2) {  

35 >                         cart.removeBook();  

36 >                     } else if (choice == 3) {  

37 >                         cart.removeAllBooks();  

38 >                     }  

39 >                 }  

40 >             } catch (Exception e) {  

41 >                 e.printStackTrace();  

42 >             }  

43 >         }  

44 >     }  

45 > }

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 >> public static void customerSystem() {  

6 >>     int n;  

7 >>     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >>     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >>     while (true) {  

10 >>         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >>         try {  

12 >>             n = Integer.parseInt(input4);  

13 >>             if (n == 1) {  

14 >>                 JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >>                 JOptionPane.showMessageDialog(null, "///Available Books in the store /// ");  

16 >>                 admin.getStock();  

17 >>                 String name = JOptionPane.showInputDialog("Enter book name:");  

18 >>                 String authorName = JOptionPane.showInputDialog("Enter author name:");  

19 >>                 Enter book price:  

20 >>                 int bookPrice = Integer.parseInt(JOptionPane.showInputDialog("Enter book price:"));  

21 >>                 try {  

22 >>                     int Copies;  

23 >>                     cart.addBook(name, authorName, bookPrice, Copies);  

24 >>                 } catch (NumberFormatException e) {  

25 >>                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

26 >>                 }  

27 >>             } else if (n == 2) {  

28 >>                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

29 >>                 + "1. Remove one book from the cart.\n"  

30 >>                 + "2. Remove some copies of the specific book from the cart.\n"  

31 >>                 + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

32 >>                 int choice = Integer.parseInt(input2);  

33 >>                 if (choice == 1) {  

34 >>                     JOptionPane.showMessageDialog(null, "1. Remove one book from the cart.\n"  

35 >>                     + "2. Remove some copies of the specific book from the cart.\n"  

36 >>                     + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  


```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 >> public static void customerSystem() {  

6 >>     int n;  

7 >>     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >>     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >>     while (true) {  

10 >>         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >>         try {  

12 >>             n = Integer.parseInt(input4);  

13 >>             if (n == 1) {  

14 >>                 JOptionPane.showMessageDialog(null, "///Add Book///");  

15 >>                 JOptionPane.showMessageDialog(null, "///Available Books in the store /// ");  

16 >>                 admin.getStock();  

17 >>                 String name = JOptionPane.showInputDialog("Enter book name:");  

18 >>                 String authorName = JOptionPane.showInputDialog("Enter author name:");  

19 >>                 Enter number of copies:  

20 >>                 int numCopies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));  

21 >>                 try {  

22 >>                     int Copies;  

23 >>                     cart.addBook(name, authorName, numCopies);  

24 >>                 } catch (NumberFormatException e) {  

25 >>                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

26 >>                 }  

27 >>             } else if (n == 2) {  

28 >>                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"  

29 >>                 + "1. Remove one book from the cart.\n"  

30 >>                 + "2. Remove some copies of the specific book from the cart.\n"  

31 >>                 + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

32 >>                 int choice = Integer.parseInt(input2);  

33 >>                 if (choice == 1) {  

34 >>                     JOptionPane.showMessageDialog(null, "1. Remove one book from the cart.\n"  

35 >>                     + "2. Remove some copies of the specific book from the cart.\n"  

36 >>                     + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  


```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() {  

6 >     int n;  

7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >     while (true) {  

10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >         try {  

12 >             n = Integer.parseInt(input4);  

13 >             if (n == 1) {  

14 >                 if (n == 1) {  

15 >                     JOptionPanel.showInputDialog("Enter book name:");  

16 >                     JOptionPanel.showInputDialog("Enter author name:");  

17 >                     admin.getStockI  

18 >                     String name = J  

19 >                     String authorNa  

20 >                     try {  

21 >                         int Copies  

22 >                         cart.addt  

23 >                         } catch (Number  

24 >                         JOptionPane  

25 >                         }  

26 >                     }  

27 >                 }  

28 >             } else if (n == 2) {  

29 >                 String input2 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.\n3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

30 >                 int choice = Integer.parseInt(input2);  

31 >                 if (choice == 1) {  

32 >                     JOptionPane.showMessageDialog("Please enter a valid number.");  

33 >                 }  

34 >             }  

35 >         }  

36 >     }  


```

Message

Stock's items:

bookID=1	bookName=amar bondhu rashed	price=100.0
authorName=zafor iqbal	noOfCopies=50	

d Book///);  
available Books in the store /// ");  
"Enter book name:");  
ialog("Enter author name:");  
ane.showInputDialog("Enter number of copies:");  
lease enter a valid number.");

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() {  

6 >     int n;  

7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);  

8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);  

9 >     while (true) {  

10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total  

11 >         try {  

12 >             n = Integer.parseInt);  

13 >             if (n == 1) {  

14 >                 if (n == 1) {  

15 >                     JOptionPanel.showInputDialog("Enter book name:");  

16 >                     JOptionPanel.showInputDialog("Enter author name:");  

17 >                     admin.getStockI  

18 >                     String name = J  

19 >                     String authorNa  

20 >                     try {  

21 >                         int Copies  

22 >                         cart.addt  

23 >                         } catch (Number  

24 >                         JOptionPane  

25 >                         }  

26 >                     }  

27 >                 }  

28 >             } else if (n == 2) {  

29 >                 String input2 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.\n3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);  

30 >                 int choice = Integer.parseInt(input2);  

31 >                 if (choice == 1) {  

32 >                     JOptionPane.showMessageDialog("Please enter a valid number.");  

33 >                 }  

34 >             }  

35 >         }  

36 >     }  


```

Message

Stock's items:

bookID=1	bookName=amar bondhu rashed	price=100.0
authorName=zafor iqbal	noOfCopies=50	

d Book///);  
available Books in the store /// ");  
"Enter book name:");  
ialog("Enter author name:");  
ane.showInputDialog("Enter number of copies:");  
lease enter a valid number.");

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() { ...
6 >     int n; ...
7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0); ...
8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0); ...
9 >     while (true) { ...
10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11 >         n = Integer.parseInt(input4);
12 >         try { ...
13 >             if (n == 1) { ...
14 >                 ...
15 >                 if (n == 1) { ...
16 >                     JOptionPane.showInputDialog(null, "Enter book name:");
17 >                     ...
18 >                     admin.getStock();
19 >                     String name = JOptionPane.showInputDialog(null, "Enter author name:");
20 >                     String authorName = JOptionPane.showInputDialog(null, "Enter number of copies:");
21 >                     ...
22 >                     try { ...
23 >                         int Copies = Integer.parseInt(authorName);
24 >                         cart.addBook(name, price, authorName, Copies);
25 >                     } catch (NumberFormatException e) {
26 >                         JOptionPane.showInputDialog(null, "Please enter a valid number.");
27 >                     }
28 >                 } else if (n == 2) { ...
29 >                     String input2 = JOptionPane.showInputDialog(null, "Enter book name:");
30 >                     ...
31 >                     ...
32 >                     ...
33 >                 }
34 >             } ...
35 >             int choice = Integer.parseInt(input2);
36 >             if (choice == 1) { ...
37 >                 ...
38 >             } ...
39 >         } ...
40 >     }

```

Message

Stock's items:

- bookID=1  
bookName=amar bondhu rashed  
price=100.0  
authorName=zafar iqbal  
noOfCopies=50
- bookID=2  
bookName=aj roblar  
price=150.0  
authorName=humayun ahmed  
noOfCopies=70
- bookID=3  
bookName=opekka  
price=200.0  
authorName=humayun ahmed  
noOfCopies=80

OK

d Book///"); ...
available Books in the store /// "); ...

"Enter book name:");
ialog("Enter author name:");

ane.showInputDialog("Enter number of copies:");
;

lease enter a valid number.");

g(null, "///Removing book from Cart///\n" + t.
t."n" + "specific book from the cart.\n" + rt.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN\_MESSAGE);

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() { ...
6 >     int n; ...
7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0); ...
8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0); ...
9 >     while (true) { ...
10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11 >         n = Integer.parseInt(input4);
12 >         try { ...
13 >             if (n == 1) { ...
14 >                 ...
15 >                 if (n == 1) { ...
16 >                     JOptionPane.showInputDialog(null, "Enter book name:");
17 >                     ...
18 >                     admin.getStock();
19 >                     String name = JOptionPane.showInputDialog(null, "Enter author name:");
20 >                     String authorName = JOptionPane.showInputDialog(null, "Enter number of copies:");
21 >                     ...
22 >                     try { ...
23 >                         int Copies = Integer.parseInt(authorName);
24 >                         cart.addBook(name, price, authorName, Copies);
25 >                     } catch (NumberFormatException e) {
26 >                         JOptionPane.showInputDialog(null, "Please enter a valid number.");
27 >                     }
28 >                 } else if (n == 2) { ...
29 >                     String input2 = JOptionPane.showInputDialog(null, "Enter book name:");
30 >                     ...
31 >                     ...
32 >                     ...
33 >                 }
34 >             } ...
35 >             int choice = Integer.parseInt(input2);
36 >             if (choice == 1) { ...
37 >                 ...
38 >             } ...
39 >         } ...
40 >     }

```

Menu For Admin

- 1. Add books to store
- 2. Remove books from store
- 3. Update book's information
- 4. Display the books
- 5. Exit

OK Cancel

d Book///"); ...
available Books in the store /// "); ...

"Enter book name:");
ialog("Enter author name:");

ane.showInputDialog("Enter number of copies:");
;

lease enter a valid number.";

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer AdminCartJava BookCartJava PoSJava
src
  bookstore
    AdminCart.java BookJava BookCart.java Customer.java
    CustomerRegistration.java DiscountProvider.java
    InvalidAdminPasswordException InvalidCustomerPhoneNumberFormat PoSJava
  IRE System Library [ire]
lab3 assignment

4 > // user cart management system
5 > public static void customerSystem() {
6 >     int n;
7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);
8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9 >     while (true) {
10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11 >         try {
12 >             n = Integer.parseInt(input4);
13 >             if (n == 1) {
14 >                 JOptionPane.showMessageDialog(null, "Available Books in the store ///");
15 >                 String name = JOptionPane.showInputDialog("Enter book name:");
16 >                 String authorName = JOptionPane.showInputDialog("Enter author name:");
17 >                 int Copies = JOptionPane.showInputDialog("Enter number of copies:");
18 >                 admin.getStock();
19 >                 String nam = admin.getStock();
20 >                 String aut = admin.getStock();
21 >                 try {
22 >                     int Co = cart.add(name, authorName, Copies);
23 >                     cart.add(name, authorName, Copies);
24 >                     cart.add(name, authorName, Copies);
25 >                 } catch (NumberFormatException e) {
26 >                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 >                 }
28 >             } else if (n == 2) {
29 >                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n");
30 >                 String input3 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n");
31 >                 String input4 = JOptionPane.showInputDialog(null, "2. Remove some copies of the specific book from the cart.\n");
32 >                 String input5 = JOptionPane.showInputDialog(null, "3. Remove all books from the cart.");
33 >                 int choice = Integer.parseInt(input2);
34 >                 if (choice == 1) {
35 >                     JOptionPane.showMessageDialog(null, "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
36 >                 }
37 >             }
38 >         } catch (NumberFormatException e) {
39 >             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
40 >         }
41 >     }
42 > }

```

Problems Javadoc Declaration Search Console X

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\17.0.9.v20231028-0858\jre\bin\javaw.exe (May 16, 2024, 11:40:15 F

Writable Smart Insert 14:1:559 ENG US 11:43 PM 5/16/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer AdminCartJava BookCartJava PoSJava
src
  bookstore
    AdminCart.java BookJava BookCart.java Customer.java
    CustomerRegistration.java DiscountProvider.java
    InvalidAdminPasswordException InvalidCustomerPhoneNumberFormat PoSJava
  IRE System Library [ire]
lab3 assignment

4 > // user cart management system
5 > public static void customerSystem() {
6 >     int n;
7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);
8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9 >     while (true) {
10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11 >         try {
12 >             n = Integer.parseInt(input4);
13 >             if (n == 1) {
14 >                 JOptionPane.showMessageDialog(null, "Add Book///");
15 >                 JOptionPane.showMessageDialog(null, "Available Books in the store ///");
16 >                 String name = JOptionPane.showInputDialog("Enter book name:");
17 >                 String authorName = JOptionPane.showInputDialog("Enter author name:");
18 >                 int Copies = JOptionPane.showInputDialog("Enter number of copies:");
19 >                 admin.getStock();
20 >                 String nam = admin.getStock();
21 >                 String aut = admin.getStock();
22 >                 try {
23 >                     int Copies = cart.add(name, authorName, Copies);
24 >                     cart.add(name, authorName, Copies);
25 >                 } catch (NumberFormatException e) {
26 >                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 >                 }
28 >             } else if (n == 2) {
29 >                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n");
30 >                 String input3 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n");
31 >                 String input4 = JOptionPane.showInputDialog(null, "2. Remove some copies of the specific book from the cart.\n");
32 >                 String input5 = JOptionPane.showInputDialog(null, "3. Remove all books from the cart.");
33 >                 int choice = Integer.parseInt(input2);
34 >                 if (choice == 1) {
35 >                     JOptionPane.showMessageDialog(null, "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
36 >                 }
37 >             }
38 >         } catch (NumberFormatException e) {
39 >             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
40 >         }
41 >     }
42 > }

```

Problems Javadoc Declaration Search Console X

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\17.0.9.v20231028-0858\jre\bin\javaw.exe (May 16, 2024, 11:40:15 F

Writable Smart Insert 14:1:559 ENG US 11:43 PM 5/16/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 >> public static void customerSystem() {<%
6 >>     int n;=<
7 >>     BookCart cart = new BookCart(0, null, 0.0, null, 0);<%
8 >>     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);<%
9 >>     while (true) {<%
10 >>         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11 >>         n = Integer.parseInt(input4);<%
12 >>         try {<%
13 >>             if (n == 1) {<%
14 >>                 if (n == 1) {<%
15 >>                     JOptionPane.showMessageDialog(null, "///Add Book///");<%
16 >>                     JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");<%
17 >>                     admin.getStock();<%
18 >>                     String name = JOptionPane.showInputDialog("Enter book name:");<%
19 >>                     String authorName = JOptionPane.showInputDialog("Enter author name:");<%
20 >>                     int Copies = JOptionPane.showInputDialog("Enter number of copies:");<%
21 >>                     try {<%
22 >>                         int Copies;
23 >>                         cart.addBook(name, authorName, Copies);<%
24 >>                     } catch (NumberFormatException e) {<%
25 >>                         JOptionPane.showMessageDialog(null, "Please enter a valid number.");<%
26 >>                     }<%
27 >>                 }<%
28 >>             else if (n == 2) {<%
29 >>                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
30 >>                 >> >> + "1. Remove one book from the cart.\n";
31 >>                 >> >> + "2. Remove some copies of the specific book from the cart.\n";
32 >>                 >> >> + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
33 >>             }<%
34 >>             int choice = Integer.parseInt(input2);<%
35 >>             if (choice == 1) {<%
36 >>                 if (choice == 1) {<%

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 >> public static void customerSystem() {<%
6 >>     int n;=<
7 >>     BookCart cart = new BookCart(0, null, 0.0, null, 0);<%
8 >>     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);<%
9 >>     while (true) {<%
10 >>         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11 >>         n = Integer.parseInt(input4);<%
12 >>         try {<%
13 >>             if (n == 1) {<%
14 >>                 if (n == 1) {<%
15 >>                     JOptionPane.showMessageDialog(null, "///Add Book///");<%
16 >>                     JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");<%
17 >>                     admin.getStock();<%
18 >>                     String name = JOptionPane.showInputDialog("Enter book name:");<%
19 >>                     String authorName = JOptionPane.showInputDialog("Enter author name:");<%
20 >>                     int Copies = JOptionPane.showInputDialog("Enter number of copies:");<%
21 >>                     try {<%
22 >>                         int Copies;
23 >>                         cart.addBook(name, authorName, Copies);<%
24 >>                     } catch (NumberFormatException e) {<%
25 >>                         JOptionPane.showMessageDialog(null, "Please enter a valid number.");<%
26 >>                     }<%
27 >>                 }<%
28 >>             else if (n == 2) {<%
29 >>                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
30 >>                 >> >> + "1. Remove one book from the cart.\n";
31 >>                 >> >> + "2. Remove some copies of the specific book from the cart.\n";
32 >>                 >> >> + "3. Remove all books from the cart.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
33 >>             }<%
34 >>             int choice = Integer.parseInt(input2);<%
35 >>             if (choice == 1) {<%
36 >>                 if (choice == 1) {<%

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

4 > // user cart management system
5 > public static void customerSystem() {
6 >     int n;
7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);
8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9 >     while (true) {
10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total Price.\n4. Exit");
11 >         try {
12 >             n = Integer.parseInt(input4);
13 >             if (n == 1) {
14 >                 JOptionPane.showMessageDialog(null, "///Available Books in the store /// ");
15 >                 String name = JOptionPane.showInputDialog("Enter book name:");
16 >                 String authorName = JOptionPane.showInputDialog("Enter author name:");
17 >                 admin.getStockItems();
18 >                 admin.addItem(name, authorName);
19 >                 cart.addItems(name, authorName);
20 >             } else if (n == 2) {
21 >                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.\n3. Remove all books from the cart.");
22 >                 int choice = Integer.parseInt(input2);
23 >                 if (choice == 1) {
24 >                     cart.removeItem();
25 >                 } else if (choice == 2) {
26 >                     String input3 = JOptionPane.showInputDialog("Enter number of copies:");
27 >                     int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
28 >                     cart.addItems(name, authorName, Copies);
29 >                 } else if (choice == 3) {
30 >                     cart.removeAll();
31 >                 }
32 >             } else if (n == 3) {
33 >                 String total = cart.getTotal();
34 >                 JOptionPane.showMessageDialog(null, "Total Price: " + total);
35 >             } else if (n == 4) {
36 >                 JOptionPane.showMessageDialog(null, "Thank you for using our service!");
37 >                 System.exit(0);
38 >             }
39 >         } catch (NumberFormatException e) {
40 >             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
41 >         }
42 >     }
43 > }

```

Problems Javadoc Declaration Search Console X

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 16, 2024, 11:40:15 F

88°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

13 >     n = Integer.parseInt(input4);
14 >
15 >     if (n == 1) {
16 >         JOptionPane.showMessageDialog(null, "///Add Book///");
17 >         JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");
18 >         admin.getStockItems();
19 >         String name = JOptionPane.showInputDialog("Enter book name:");
20 >         String authorName = JOptionPane.showInputDialog("Enter author name:");
21 >
22 >         try {
23 >             int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 >             cart.addItem(name, authorName, Copies);
25 >         } catch (NumberFormatException e) {
26 >             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 >         }
28 >     } else if (n == 2) {
29 >         String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n1. Remove books from store\n2. Remove books from store\n3. Update book's information\n4. Display the books");
30 >         int choice = Integer.parseInt(input2);
31 >         if (choice == 1) {
32 >             cart.removeAll();
33 >         } else if (choice == 2) {
34 >             cart.removeItem();
35 >         } else if (choice == 3) {
36 >             String bookName = JOptionPane.showInputDialog("Enter book name:");
37 >             String authorName = JOptionPane.showInputDialog("Enter author name:");
38 >             Book b = new Book(bookName, authorName);
39 >             cart.removeOneItem(b);
40 >         } else if (choice == 4) {
41 >             cart.getCartItems();
42 >         }
43 >     }
44 > }

```

Problems Javadoc Declaration Search Console X

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:01:38 F

88°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCartJava PoSJava
AdminCartJava
4 > // user cart management system
5 > public static void customerSystem() {
6 >     int n;
7 >     BookCart cart = new BookCart(0, null, 0.0, null, 0);
8 >     AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9 >     while (true) {
10 >         String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total
11 >         try {
12 >             n = Integer.parseInt(input4);
13 >             if (n == 1) {
14 >                 if (n == 1) {
15 >                     int Copies = JOptionPane.showInputDialog(null, "Enter number of copies:");
16 >                     cart.addItem(name, authorName, Copies);
17 >                     admin.getStock();
18 >                     String name = JOptionPane.showInputDialog("Enter book name:");
19 >                     String authorName = JOptionPane.showInputDialog("Enter author name:");
20 >                     JOptionPane.showMessageDialog(null, "Book added successfully!");
21 >                 } else if (n == 2) {
22 >                     String input2 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n2. Remove some copies of the specific book from the store.
23 >                     int choice = Integer.parseInt(input2);
24 >                     if (choice == 1) {
25 >                         cart.removeItem(name);
26 >                     } else if (choice == 2) {
27 >                         String name = JOptionPane.showInputDialog("Enter book name:");
28 >                         String authorName = JOptionPane.showInputDialog("Enter author name:");
29 >                         int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
30 >                         cart.removeItem(name, authorName, Copies);
31 >                     }
32 >                 }
33 >             } else if (n == 3) {
34 >                 String input3 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.
35 >                 int choice = Integer.parseInt(input3);
36 >                 if (choice == 1) {
37 >                     cart.removeItem(name);
38 >                 } else if (choice == 2) {
39 >                     String name = JOptionPane.showInputDialog("Enter book name:");
40 >                     String authorName = JOptionPane.showInputDialog("Enter author name:");
41 >                     int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
42 >                     cart.removeItem(name, authorName, Copies);
43 >                 }
44 >             }
45 >         } catch (NumberFormatException e) {
46 >             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
47 >         }
48 >     }
49 > }

```

Problems Javadoc Declaration Search Console X

Pos 4 [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\re\full\win32\x86\_64\17.0.9.v20231028-0858\jre\bin\javaw.exe (May 16, 2024, 11:54:13 F

88°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCartJava PoSJava
AdminCartJava
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class POS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total
11             try {
12                 n = Integer.parseInt(input4);
13                 if (n == 1) {
14                     int Copies = JOptionPane.showInputDialog(null, "Enter number of copies:");
15                     cart.addItem(name, authorName, Copies);
16                     admin.getStock();
17                     String name = JOptionPane.showInputDialog("Enter book name:");
18                     String authorName = JOptionPane.showInputDialog("Enter author name:");
19                     JOptionPane.showMessageDialog(null, "Book added successfully!");
20                 } else if (n == 2) {
21                     String input2 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n2. Remove some copies of the specific book from the store.
22                     int choice = Integer.parseInt(input2);
23                     if (choice == 1) {
24                         cart.removeItem(name);
25                     } else if (choice == 2) {
26                         String name = JOptionPane.showInputDialog("Enter book name:");
27                         String authorName = JOptionPane.showInputDialog("Enter author name:");
28                         int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
29                         cart.removeItem(name, authorName, Copies);
30                     }
31                 }
32             } catch (NumberFormatException e) {
33                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
34             }
35         }
36     }
37 }

```

Problems Javadoc Declaration Search Console X

Pos 4 [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\re\full\win32\x86\_64\17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:25:12 F

86°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Enter book name:");
18                 String name = JOptionPane.showInputDialog(null, "Enter author name:");
19                 String authorName = JOptionPane.showInputDialog(null, "Enter number of copies:");
20                 int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
21                 try {
22                     cart.addItem(name, authorName, Copies);
23                 } catch (NumberFormatException e) {
24                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
25                 }
26             } else if (n == 2) {
27                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
28             } else if (n == 3) {
29                 String input3 = JOptionPane.showInputDialog(null, "///Get Total///\n");
30             }
31         }
32     }
33 }

```

Input dialog: Enter author name:  
humayun ahmed

Output dialog: Book:///available Books in the store ///  
Enter book name:  
Enter author name:  
Enter number of copies:

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

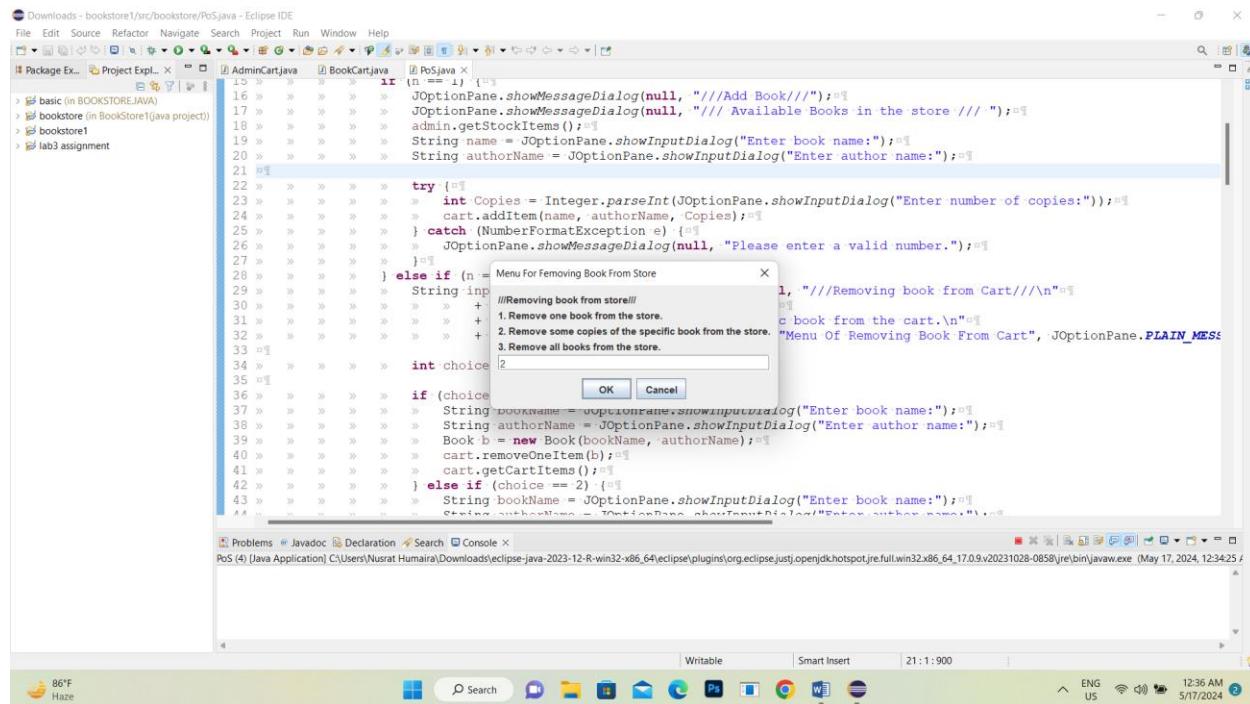
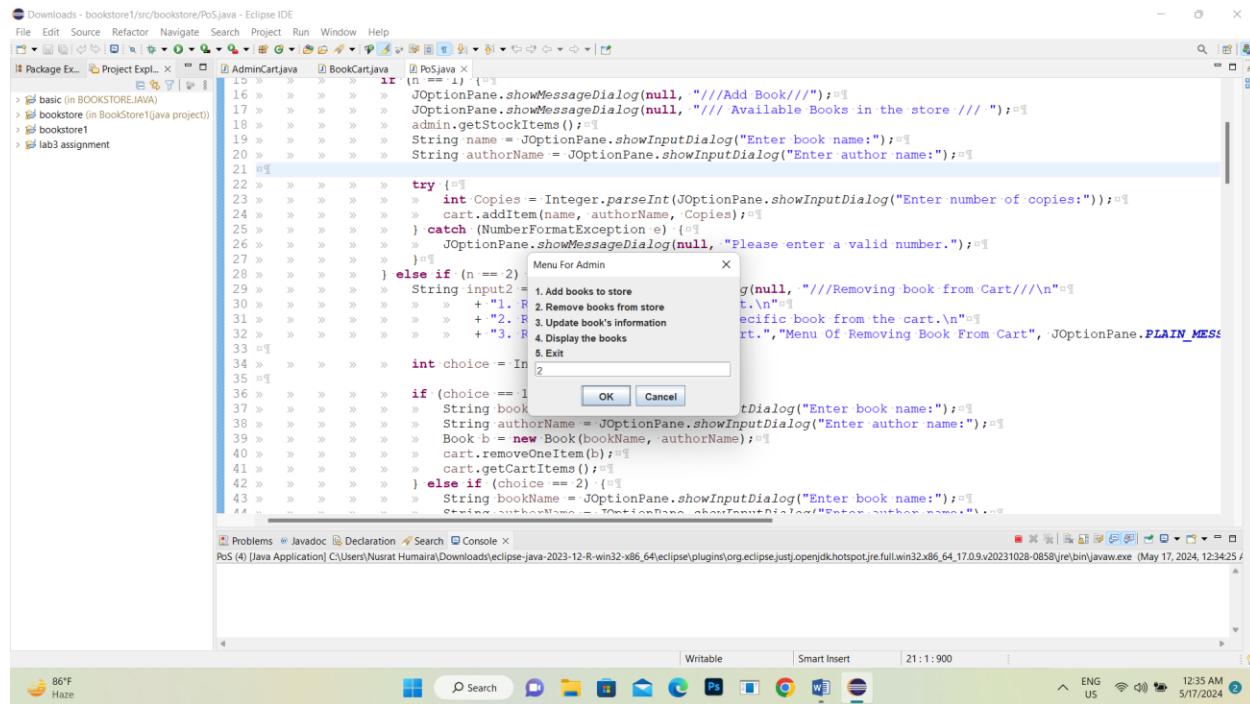
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Stock's items:");
18                 String bookID1=1;
19                 String bookName1="amar bondhu rashed";
20                 double price1=100.0;
21                 String authorName1="zafor iqbal";
22                 int noOfCopies1=30;
23                 bookID2=2;
24                 bookName2="aj rolibar";
25                 price2=150.0;
26                 authorName2="humayun ahmed";
27                 noOfCopies2=70;
28             } else if (n == 2) {
29                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
30             } else if (n == 3) {
31                 String input3 = JOptionPane.showInputDialog(null, "///Get Total///\n");
32             }
33         }
34     }
35 }

```

Message dialog: Stock's items:  
bookID1=1  
bookName1=amar bondhu rashed  
price1=100.0  
authorName1=zafor iqbal  
noOfCopies1=30  
  
bookID2=2  
bookName2=aj rolibar  
price2=150.0  
authorName2=humayun ahmed  
noOfCopies2=70

Input dialog: Enter book name:  
Enter author name:  
Enter number of copies:

Output dialog: Book:///available Books in the store ///  
Enter book name:  
Enter author name:  
Enter number of copies:



Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCart.java AdminCart.java PoJava
15 > > > > > >
16 > > > > > > JOptionPane.showMessageDialog(null, "///Add Book///");  

17 > > > > > > JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");  

18 > > > > > > admin.getStockItems();  

19 > > > > > > String name = JOptionPane.showInputDialog("Enter book name:");  

20 > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");  

21 <= try {  

22 > > > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));  

23 > > > > > > > cart.additem(name, authorName, Copies);  

24 > > > > > > } catch (NumberFormatException e) {  

25 > > > > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

26 > > > > > }  

27 > > > > } else if (n == 2) {  

28 > > > > > > String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"+  

29 > > > > > > + "1. To remove specific book from the cart.\n"+  

30 > > > > > > + "2. To remove all books from the cart.\n"+  

31 > > > > > > + "3. To exit from the program.");  

32 > > > > > }  

33 <= int choice = Integer.parseInt(input2);  

34 > > > > > if (choice == 1) {  

35 > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:");  

36 > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");  

37 > > > > > > Book b = new Book(bookName, authorName);  

38 > > > > > > cart.removeOneItem(b);  

39 > > > > > } else if (choice == 2) {  

40 > > > > > > cart.getCartItems();  

41 > > > > > } else if (choice == 3) {  

42 > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:");  

43 > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");  

44 > > > > }  


```

Enter book name:  
amar bindhu rashed

OK Cancel

Enter author name:  
zafar iqbal

OK Cancel

86°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCart.java AdminCart.java PoJava
15 > > > > > >
16 > > > > > > JOptionPane.showMessageDialog(null, "///Add Book///");  

17 > > > > > > JOptionPane.showMessageDialog(null, "/// Available Books in the store /// ");  

18 > > > > > > admin.getStockItems();  

19 > > > > > > String name = JOptionPane.showInputDialog("Enter book name:");  

20 > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");  

21 <= try {  

22 > > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));  

23 > > > > > > cart.additem(name, authorName, Copies);  

24 > > > > > } catch (NumberFormatException e) {  

25 > > > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number.");  

26 > > > > }  

27 > > > } else if (n == 2) {  

28 > > > > > > String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"+  

29 > > > > > > + "1. To remove specific book from the cart.\n"+  

30 > > > > > > + "2. To remove all books from the cart.\n"+  

31 > > > > > > + "3. To exit from the program.");  

32 > > > > > }  

33 <= int choice = Integer.parseInt(input2);  

34 > > > > > if (choice == 1) {  

35 > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:");  

36 > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");  

37 > > > > > > Book b = new Book(bookName, authorName);  

38 > > > > > > cart.removeOneItem(b);  

39 > > > > > } else if (choice == 2) {  

40 > > > > > > cart.getCartItems();  

41 > > > > > } else if (choice == 3) {  

42 > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:");  

43 > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");  

44 > > > > }  


```

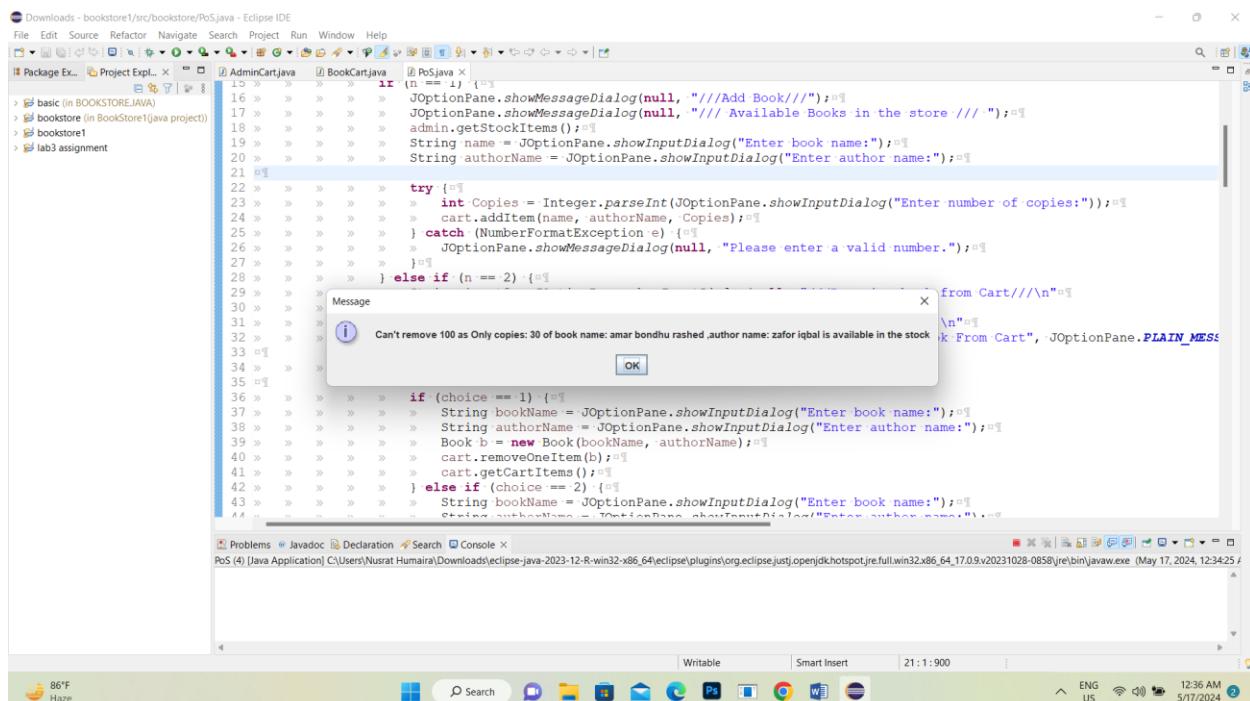
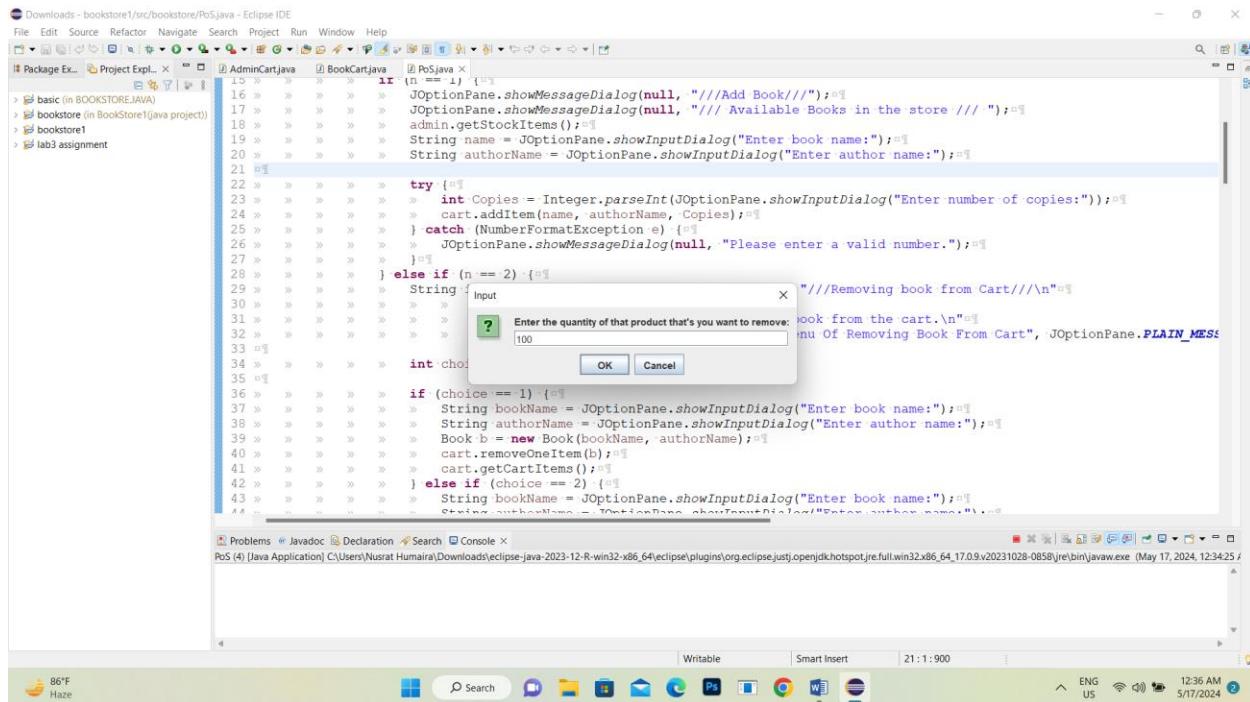
Enter book name:  
amar bindhu rashed

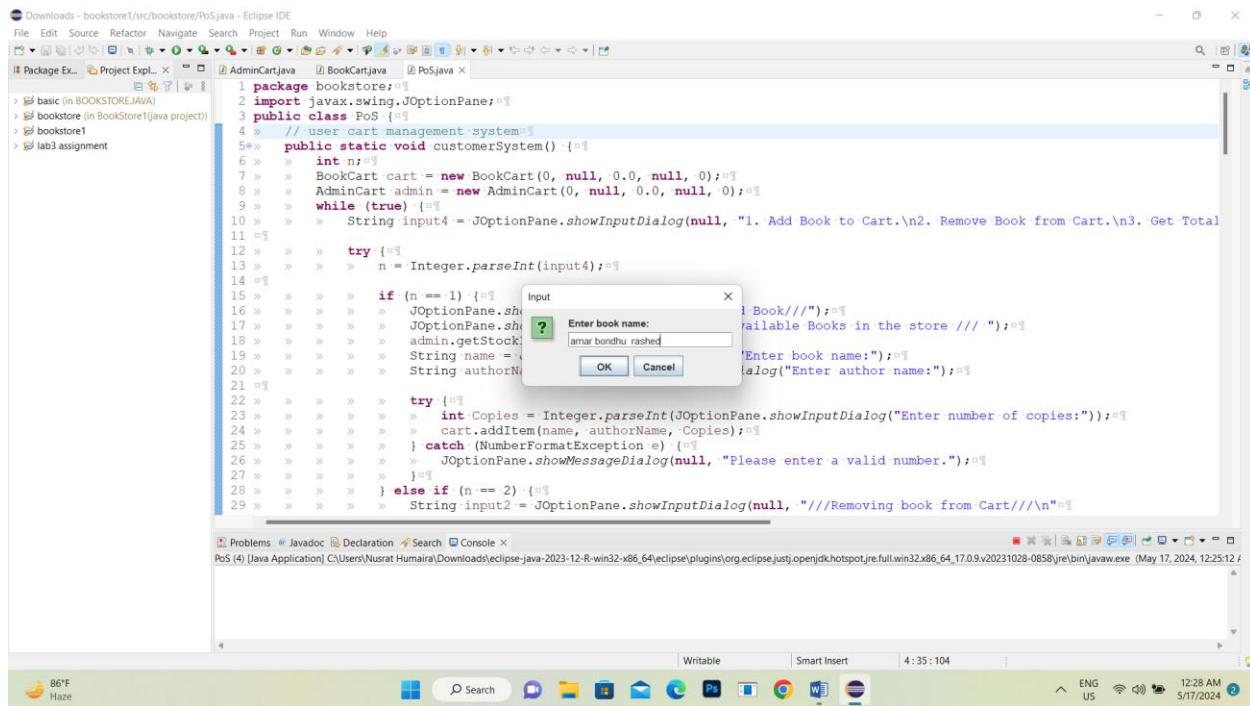
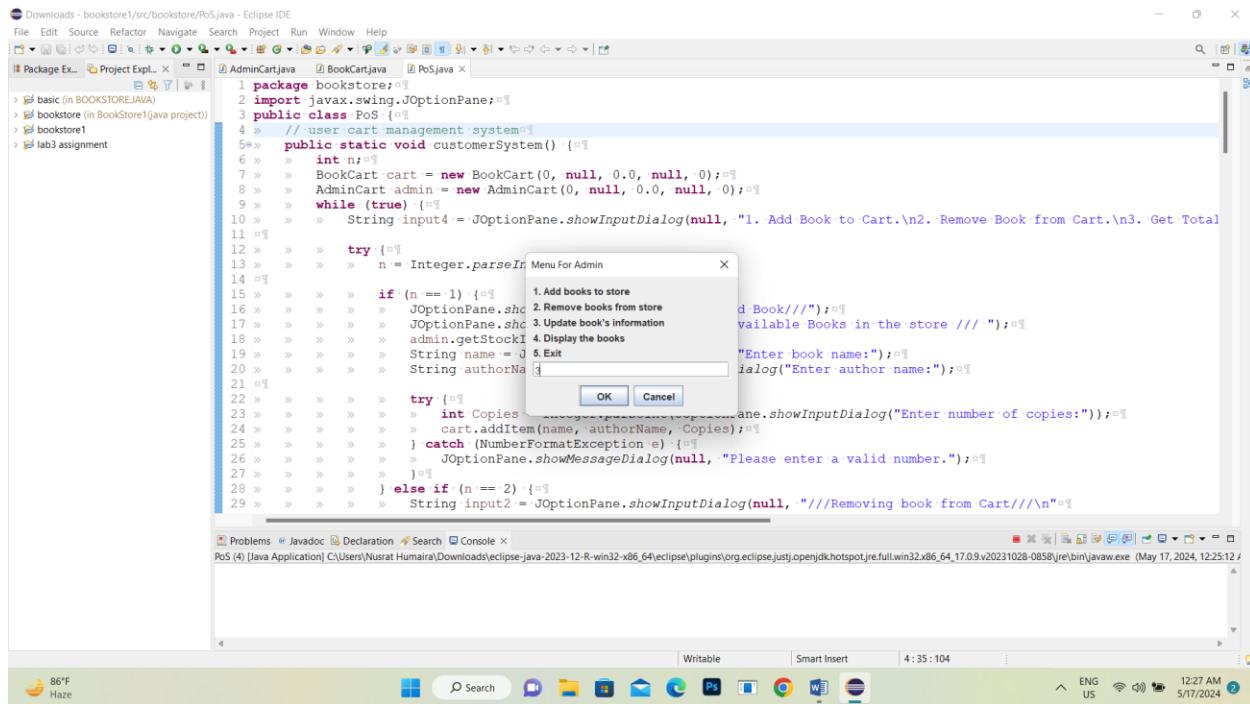
OK Cancel

Enter author name:  
zafar iqbal

OK Cancel

86°F Haze





Downloads - bookstore1/src/bookstore/PoS.java - Eclipse IDE

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10            String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11            try {
12                n = Integer.parseInt(input4);
13            } catch (NumberFormatException e) {
14                JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15            }
16            if (n == 1) {
17                JOptionPane.showInputDialog(null, "Available Books in the store ///");
18                String name = JOptionPane.showInputDialog(null, "Enter book name:///");
19                String authorName = JOptionPane.showInputDialog(null, "Enter author name:///");
20                String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
21            } else if (n == 2) {
22                try {
23                    int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies://"));
24                    cart.addItem(name, authorName, Copies);
25                } catch (NumberFormatException e) {
26                    JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27                }
28            } else if (n == 3) {
29                String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
30            }
31        }
32    }
33}
```

1.Want to increase price.  
2.Want to Decrease price.  
enter your choice:  
1

Input

OK Cancel

Problems Javadoc Declaration Search Console

PoS (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jdt.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:25:12)

Writable Smart Insert 4 : 35 : 104

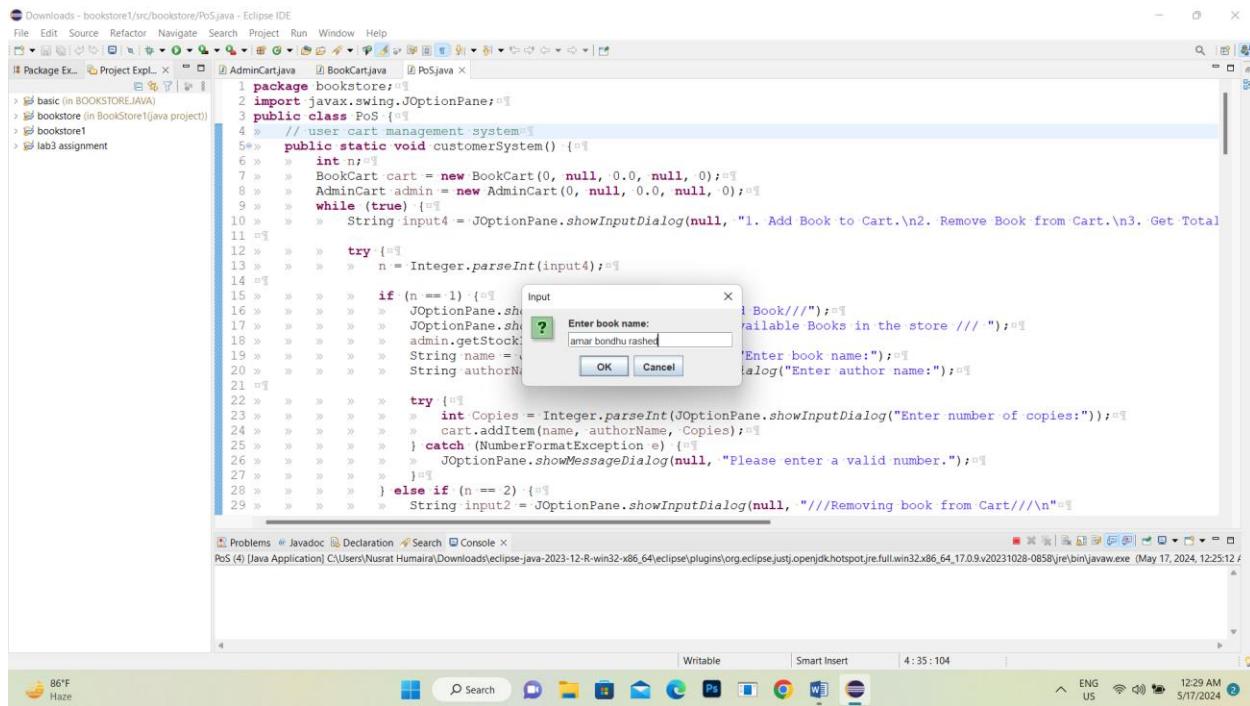
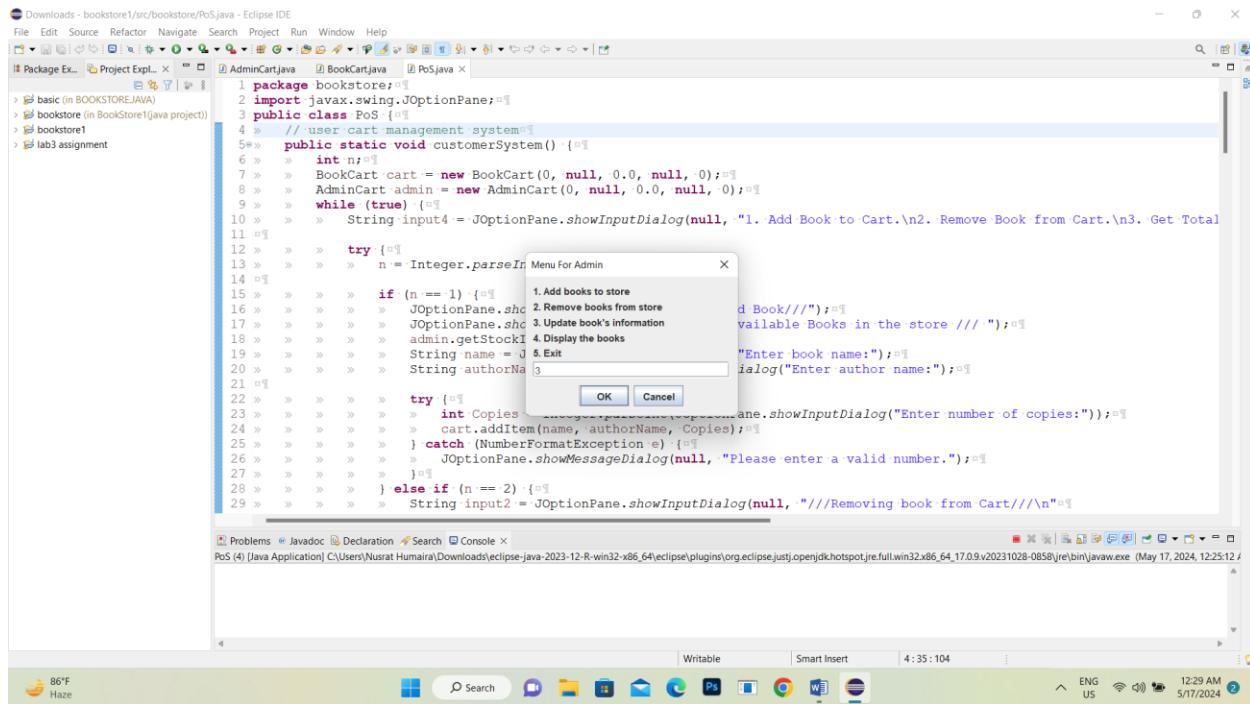
86°F Haze ENG US 12:28 AM 5/17/2024

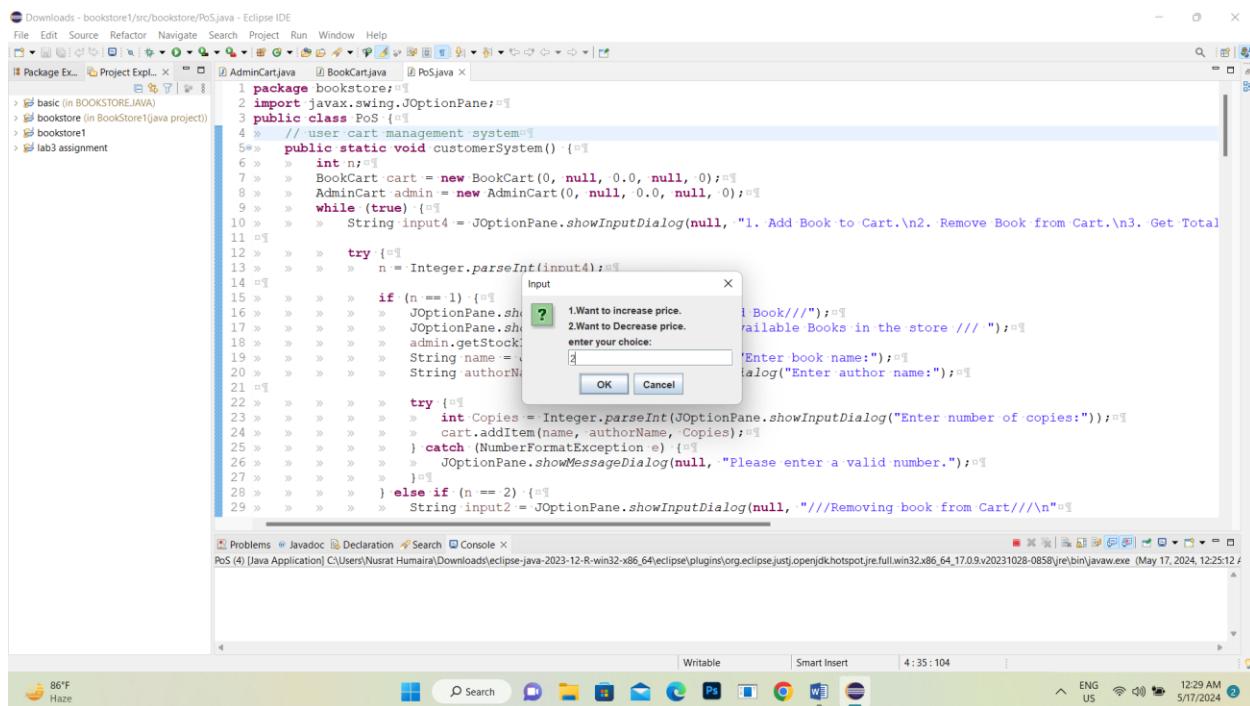
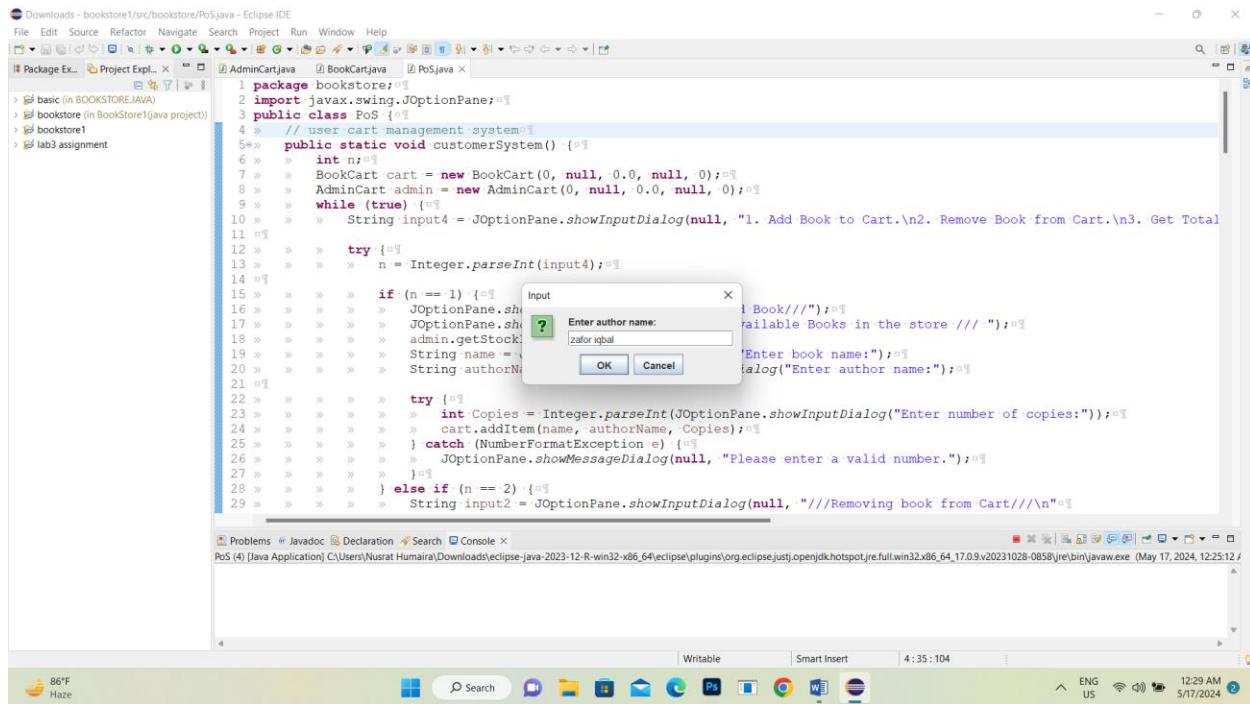
Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
1 package bookstore; 2 import javax.swing.JOptionPane; 3 public class PoS { 4 // user cart management system 5 public static void customerSystem() { 6 int n; 7 BookCart cart = new BookCart(0, null, 0.0, null, 0); 8 AdminCart admin = new AdminCart(0, null, 0.0, null, 0); 9 while (true) { 10 String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total"); 11 if (input4.equals("1")) { 12 try { 13 n = Integer.parseInt(input4); 14 if (n == 1) { 15 JOptionPane.showInputDialog(null, "Enter book name:"); 16 JOptionPane.showInputDialog(null, "Enter author name:"); 17 admin.getStock(); 18 String name = JOptionPane.showInputDialog(null, "Enter book name:"); 19 String authorName = JOptionPane.showInputDialog(null, "Enter author name:"); 20 cart.addItem(name, authorName, 1); 21 } else if (n == 2) { 22 try { 23 int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:")); 24 cart.AddItem(name, authorName, Copies); 25 } catch (NumberFormatException e) { 26 JOptionPane.showMessageDialog(null, "Please enter a valid number."); 27 } 28 } else if (n == 3) { 29 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"); 30 } 31 } catch (NumberFormatException e) { 32 JOptionPane.showMessageDialog(null, "Please enter a valid number."); 33 } 34 } 35 } 36 } 37 } 38 } 39 } 40 }
```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
1 package bookstore; 2 import javax.swing.JOptionPane; 3 public class PoS { 4 // user cart management system 5 public static void customerSystem() { 6 int n; 7 BookCart cart = new BookCart(0, null, 0.0, null, 0); 8 AdminCart admin = new AdminCart(0, null, 0.0, null, 0); 9 while (true) { 10 String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total"); 11 if (input4.equals("1")) { 12 try { 13 n = Integer.parseInt(input4); 14 if (n == 1) { 15 JOptionPane.showInputDialog(null, "Enter book name:"); 16 JOptionPane.showInputDialog(null, "Enter author name:"); 17 admin.getStock(); 18 String name = JOptionPane.showInputDialog(null, "Enter book name:"); 19 String authorName = JOptionPane.showInputDialog(null, "Enter author name:"); 20 cart.addItem(name, authorName, 1); 21 } else if (n == 2) { 22 try { 23 int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:")); 24 cart.AddItem(name, authorName, Copies); 25 } catch (NumberFormatException e) { 26 JOptionPane.showMessageDialog(null, "Please enter a valid number."); 27 } 28 } else if (n == 3) { 29 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n"); 30 } 31 } catch (NumberFormatException e) { 32 JOptionPane.showMessageDialog(null, "Please enter a valid number."); 33 } 34 } 35 } 36 } 37 } 38 } 39 } 40 }
```





Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

File Edit Source Refactor Navigate Project Run Window Help

Package Explorer Project Explorer

AdminCartJava BookCartJava PoSJava

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Enter book name:");
18                 String name = JOptionPane.showInputDialog(null, "Enter author name:");
19                 String authorName = name + " " + authorName;
20                 String input2 = JOptionPane.showInputDialog(null, "Enter price:");
21                 int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
22                 try {
23                     cart.addItem(name, authorName, Copies);
24                 } catch (NumberFormatException e) {
25                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
26                 }
27             } else if (n == 2) {
28                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
29             }
30         }
31     }
32 }
```

Input enter price: 20

Book///  
available Books in the store // " ;  
Enter book name:  
alog("Enter author name:");  
86°F Haze

Problems Javadoc Declaration Search Console

PoS (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jdt\openjdkhotspot\jre\full\win32\x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:25:12 /)

Writable Smart Insert 4 : 35 : 104

ENG US 12:29 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class POS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Enter book name:");
18                 String bookName = JOptionPane.showInputDialog(null, "Enter author name:");
19                 int price = 130.0;
20                 String name = J
21                 String authorNa
22                 try {
23                     int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24                     cart.addItem(name, authorName, Copies);
25                 } catch (NumberFormatException e) {
26                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27                 }
28             } else if (n == 2) {
29                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");

```

after update:  
bookId=1  
bookName=amar bondhu rashed  
price=130.0  
authorName=zafar iqbal  
noOfCopies=30

d Book///);  
available Books in the store /// ");  
"Enter book name:");  
ialog("Enter author name:");

OK

Problems Javadoc Declaration Search Console

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-ja... (May 17, 2024, 12:25:12)

Writable Smart Insert 4:35:104

86°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class POS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Enter book name:");
18                 String bookName = JOptionPane.showInputDialog(null, "Enter author name:");
19                 int price = 130.0;
20                 String name = J
21                 String authorNa
22                 try {
23                     int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24                     cart.addItem(name, authorName, Copies);
25                 } catch (NumberFormatException e) {
26                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27                 }
28             } else if (n == 2) {
29                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");

```

1. Add books to store  
2. Remove books from store  
3. Update book's information  
4. Display the books  
5. Exit

d Book///);  
available Books in the store /// ");  
"Enter book name:");  
ialog("Enter author name:");

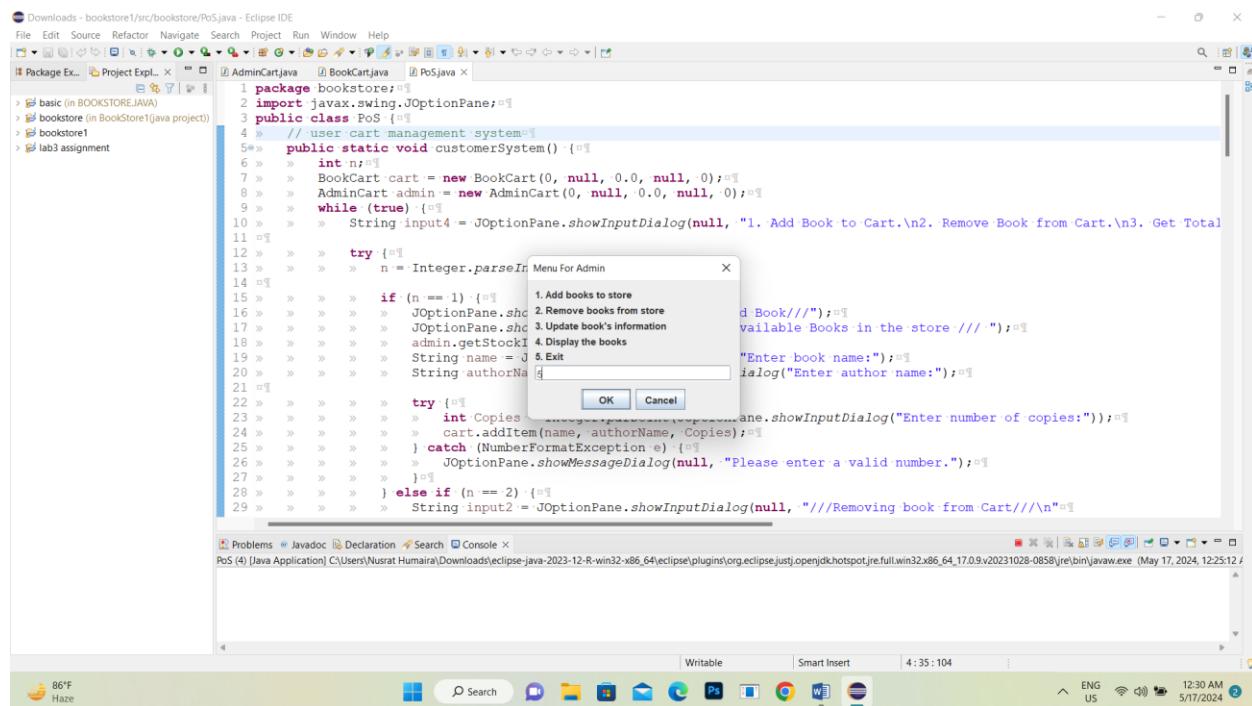
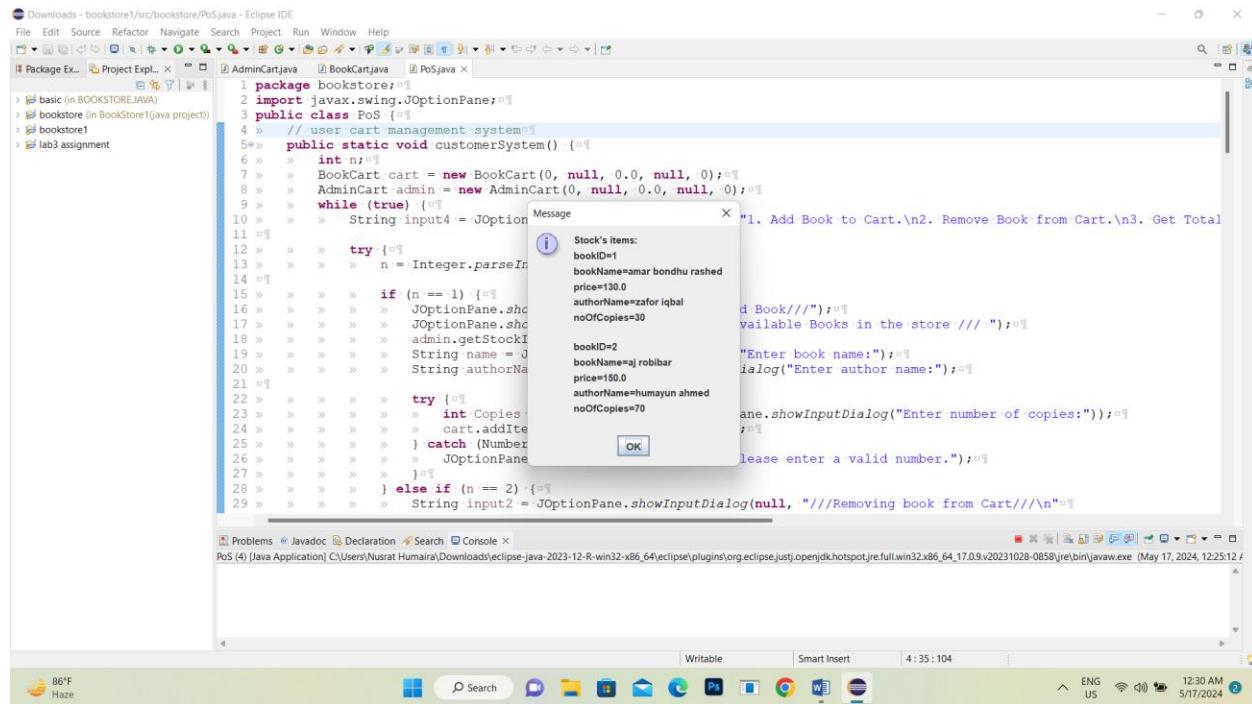
OK Cancel

Problems Javadoc Declaration Search Console

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-ja... (May 17, 2024, 12:25:12)

Writable Smart Insert 4:35:104

86°F Haze



Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCartJava PoSJava
> lab basic (in BOOKSTORE.JAVA)
> bookstore (in BookStore1.java project)
> bookstore1
> lab3 assignment

1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book from Cart.\n3. Get Total");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Enter book name:");
18                 String name = JOptionPane.showInputDialog(null, "Enter author name:");
19                 String authorName = JOptionPane.showInputDialog(null, "Enter number of copies:");
20                 int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
21                 cart.addItem(name, authorName, Copies);
22             } catch (NumberFormatException e) {
23                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
24             }
25         } catch (NumberFormatException e) {
26             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27         }
28     } else if (n == 2) {
29         String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n");
30     }
31 }

```

Message Exiting... OK

Available Books in the store // /

Enter book name: Enter author name:

86°F Haze

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCartJava PoSJava
> lab basic (in BOOKSTORE.JAVA)
> bookstore (in BookStore1.java project)
> bookstore1
> lab3 assignment

15
16     if (n == 1) {
17         JOptionPane.showMessageDialog(null, "///Add Book///");
18         JOptionPane.showMessageDialog(null, "/// Available Books in the store // / ");
19         admin.getStockItems();
20         String name = JOptionPane.showInputDialog("Enter book name:");
21         String authorName = JOptionPane.showInputDialog("Enter author name:");
22
23         try {
24             int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
25             cart.addItem(name, authorName, Copies);
26         } catch (NumberFormatException e) {
27             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
28         }
29     } else if (n == 2) {
30         String input2 =
31             + "1. Remove book from Cart\n"
32             + "2. Remove specific book from the cart.\n"
33             + "3. Exit";
34         int choice = Integer.parseInt(JOptionPane.showInputDialog("Enter Your choice:"));
35
36         if (choice == 1) {
37             String bookName = JOptionPane.showInputDialog("Enter book name:");
38             String authorName = JOptionPane.showInputDialog("Enter author name:");
39             Book b = new Book(bookName, authorName);
40             cart.removeOneItem(b);
41             cart.getCartItems();
42         } else if (choice == 2) {
43             String bookName = JOptionPane.showInputDialog("Enter book name:");
44             String authorName = JOptionPane.showInputDialog("Enter author name:");
45             Book b = new Book(bookName, authorName);
46             cart.removeOneItem(b);
47             cart.getCartItems();
48         }
49     }
50 }

```

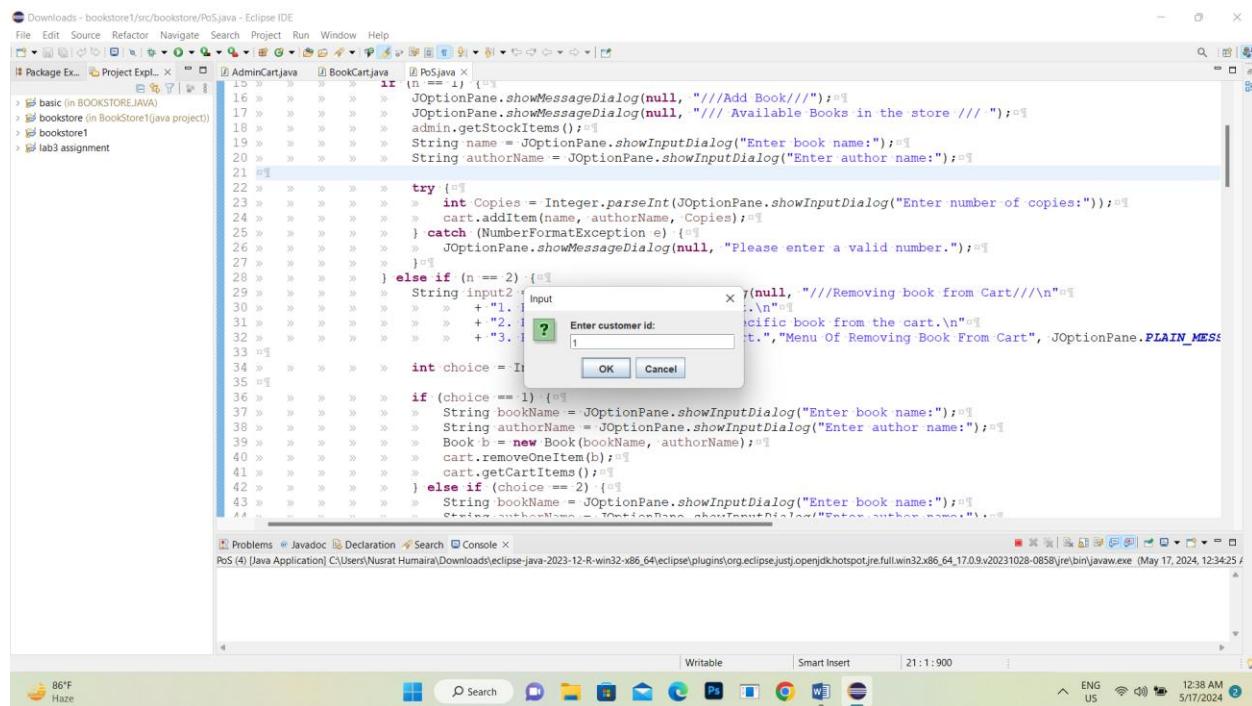
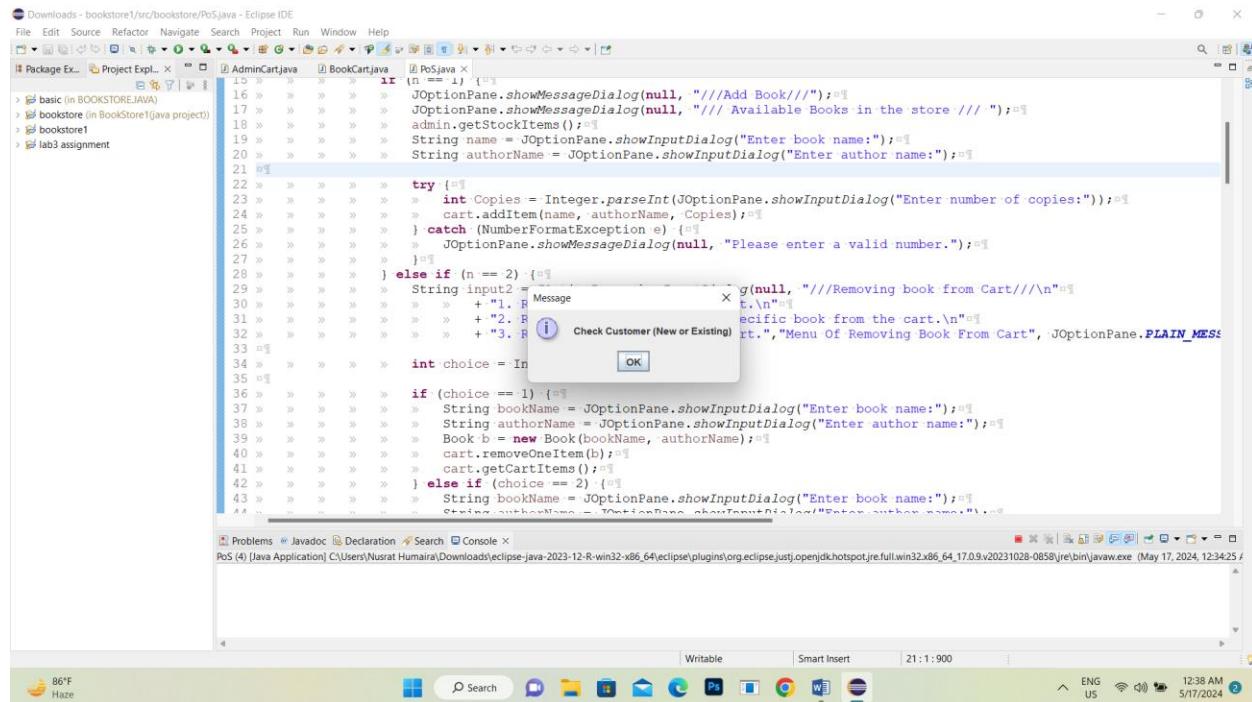
Menu Of BookStore OK Cancel

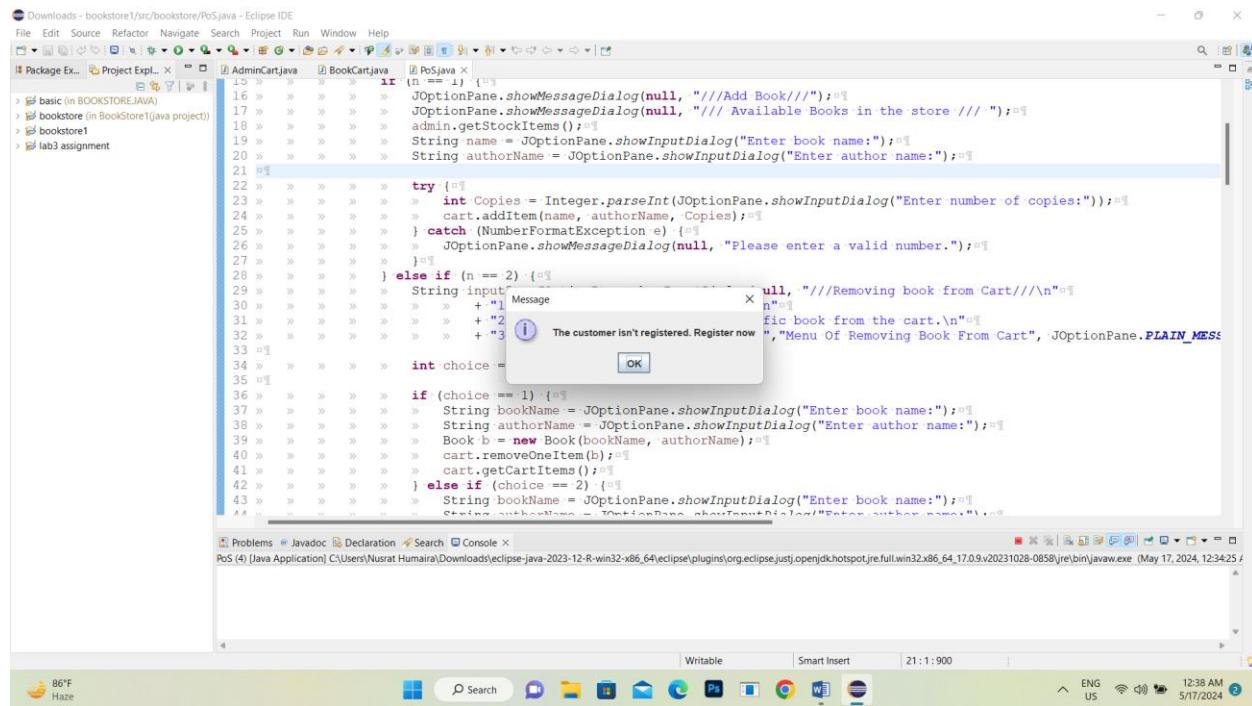
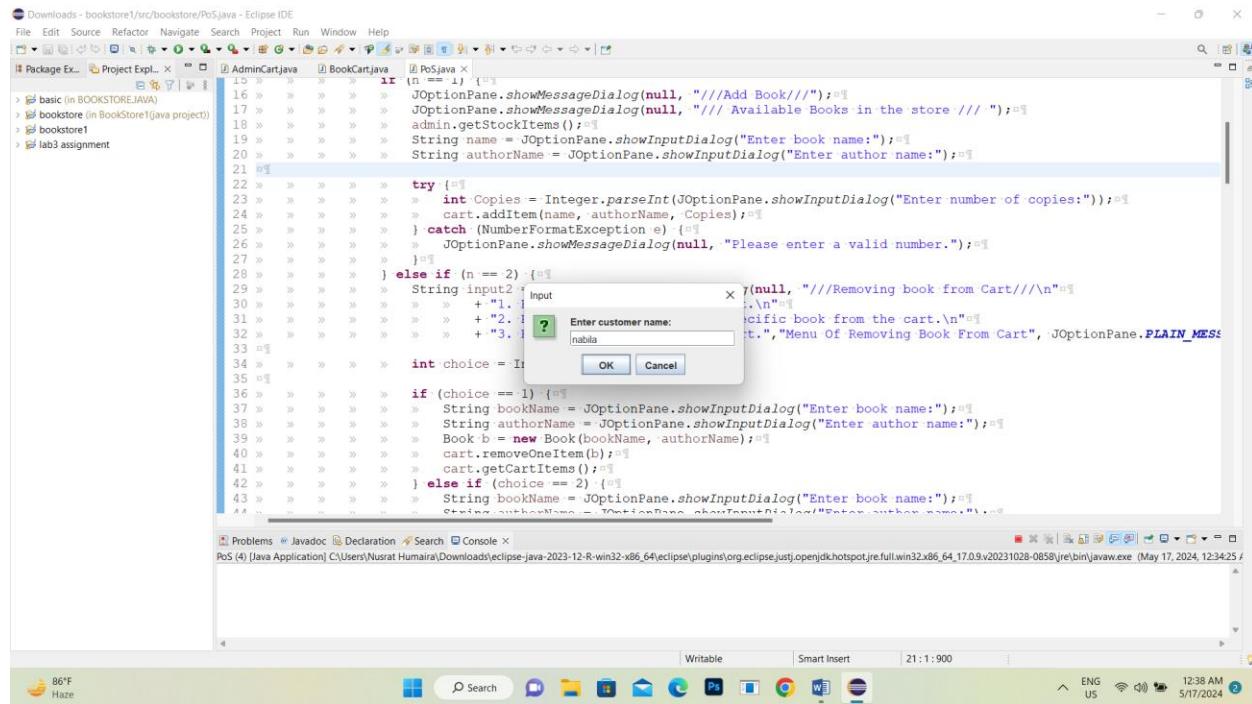
1. Owner account access  
2. User account access  
3. Exit

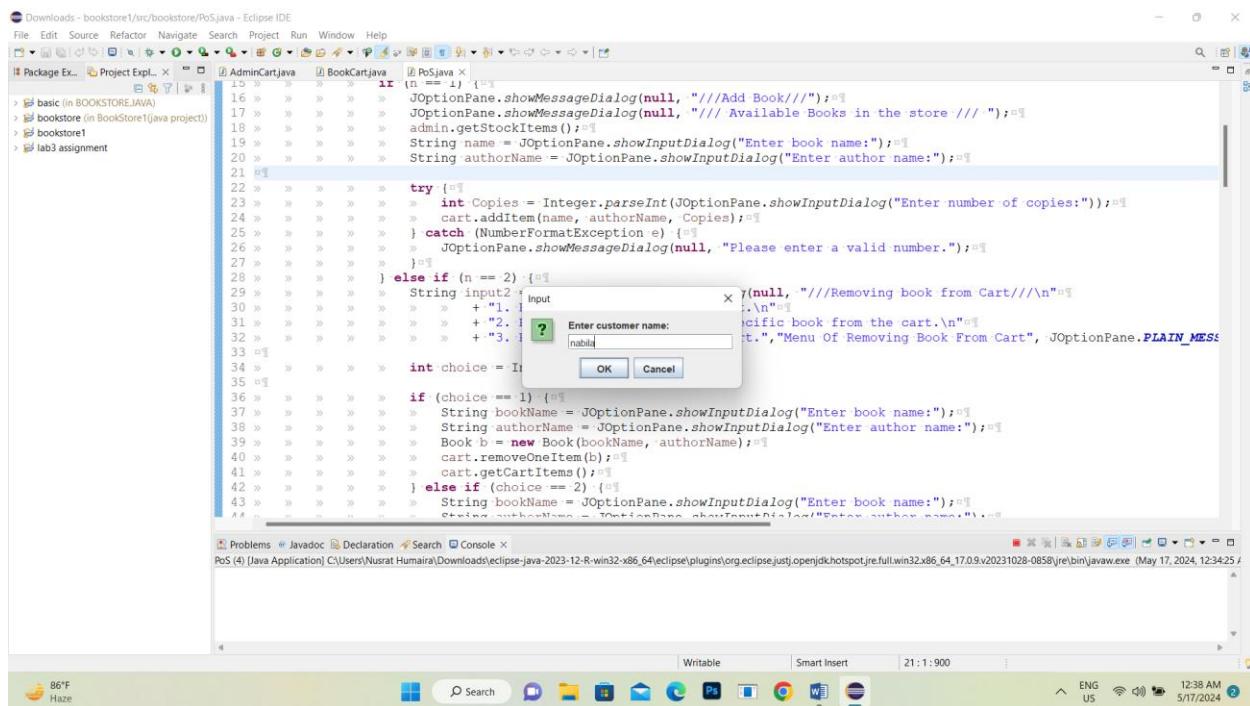
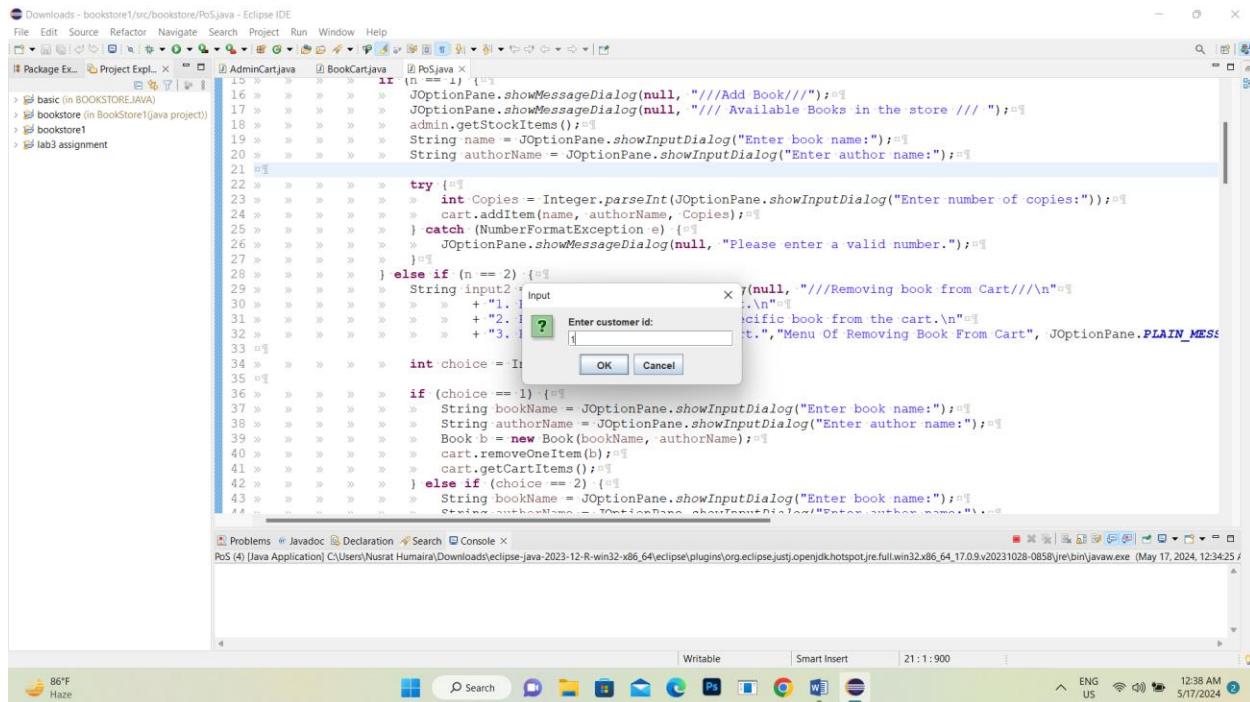
Enter Your choice:

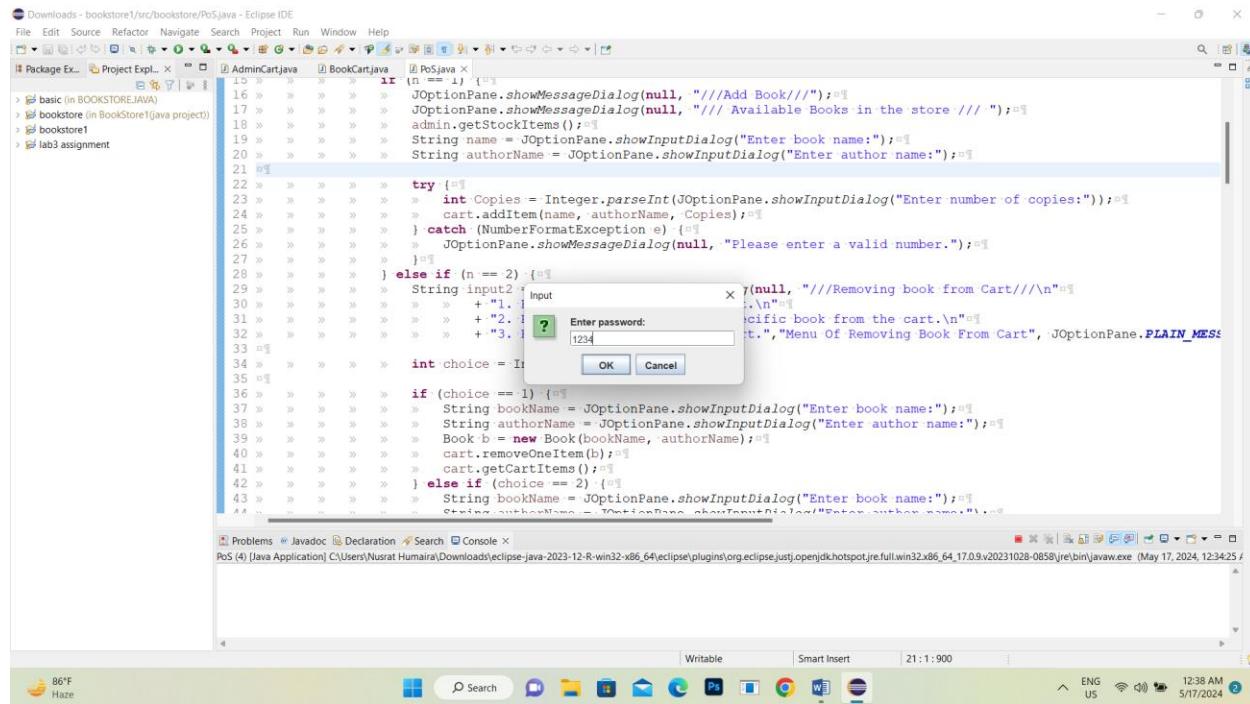
g(null, "///Removing book from Cart///\n");
t.\n" );
ecific book from the cart.\n" );
rt.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN\_MESSAGE;

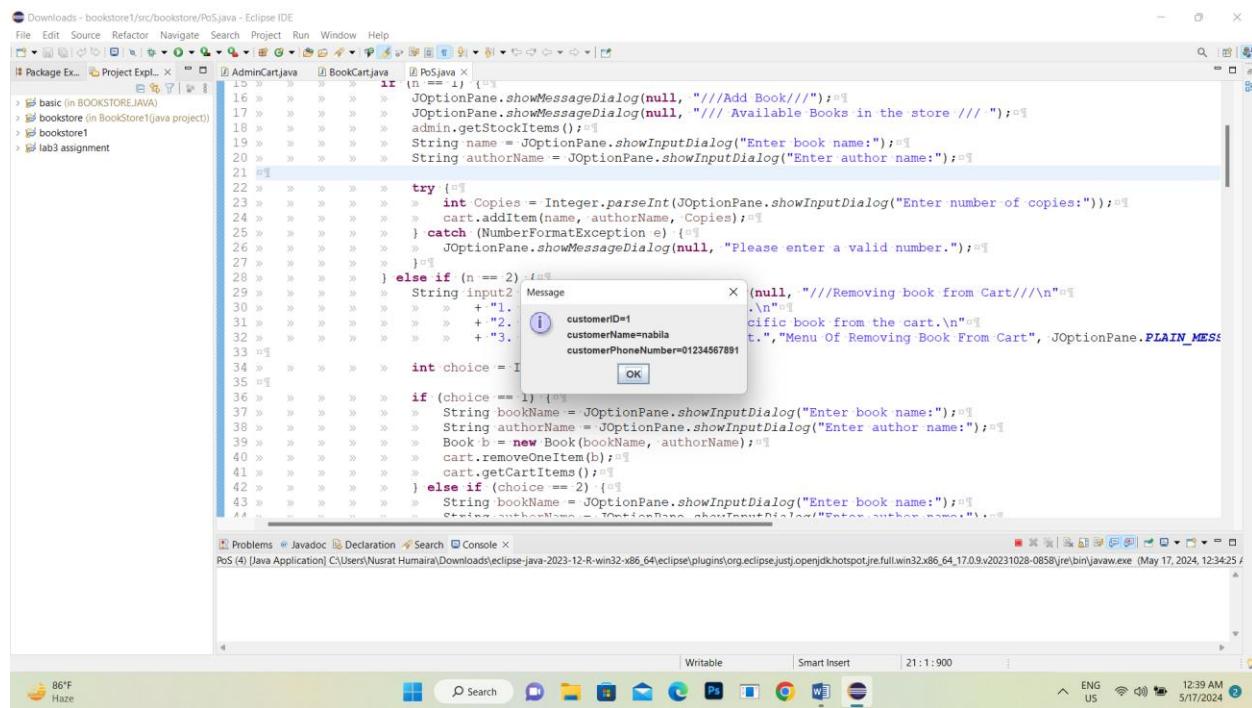
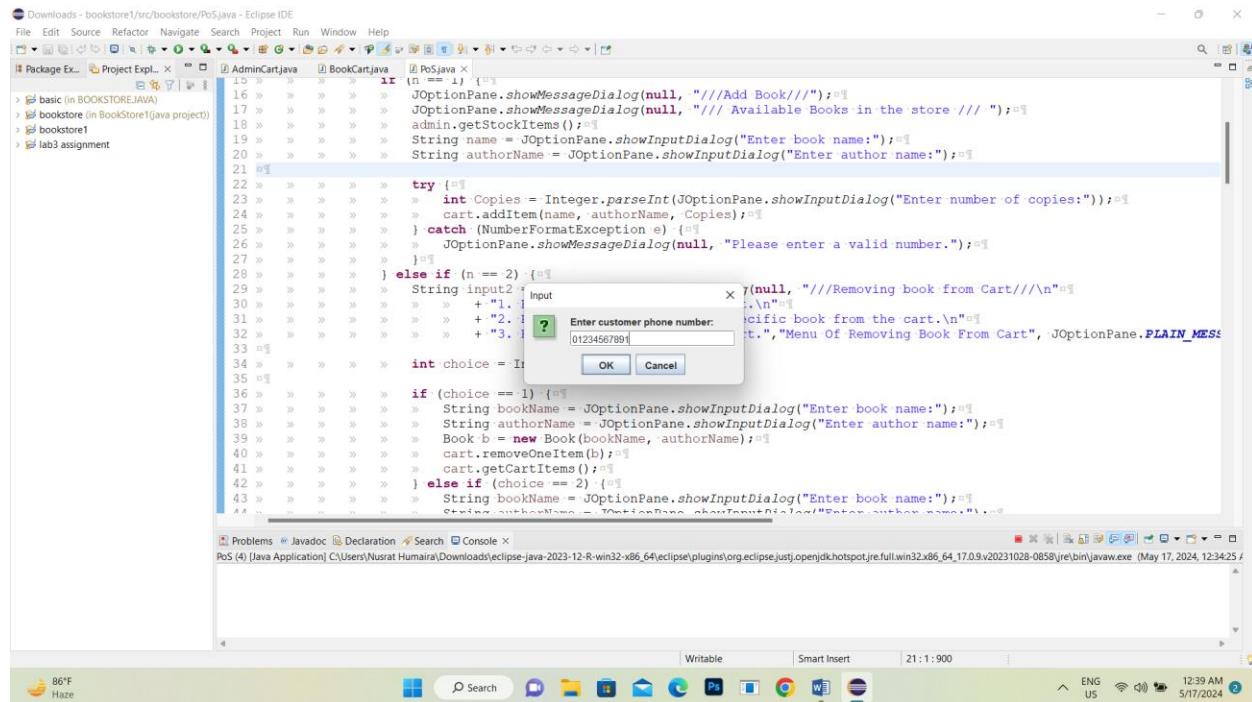
86°F Haze











Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

File Edit Source Refactor Navigate Project Run Window Help

Package Explorer Project Explorer

AdminCartJava BookCartJava PoJava

```
1. Add Book to Cart.
2. Remove Book from Cart.
3. Get Total price.
4. Apply Discount.
5. View Cart Details.
6. Exit.
```

16 > > > > > > JOptionPanel.showMessageDialog(null, "///Add Book///");  
17 > > > > > > JOptionPanel.showMessageDialog(null, "/// Available Books in the store /// ");  
18 > > > > > > admin.getStockItems();  
19 > > > > > > String name = JOptionPane.showInputDialog("Enter book name:");  
20 > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");  
21 <\*>  
22 > > > > > > try {  
23 > > > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));  
24 > > > > > > > cart.addItem(name, authorName, Copies);  
25 > > > > > > } catch (NumberFormatException e) {  
26 > > > > > > > JOptionPane.showMessageDialog(null, "please enter a valid number.");  
27 > > > > > > }  
28 > > > > > > } else if (n == 2) {  
29 > > > > > > > String input2 =  
30 > > > > > > > + "1. R  
31 > > > > > > > + "2. R  
32 > > > > > > > + "3. R  
33 <\*>  
34 > > > > > > int choice = In  
35 <\*>  
36 > > > > > > if (choice == 1)  
37 > > > > > > > String book  
38 > > > > > > > String authurName = JOptionPane.showInputDialog("Enter author name:");  
39 > > > > > > > Book b = new Book(bookName, authurName);  
40 > > > > > > > cart.removeOneItem(b);  
41 > > > > > > > cart.getCartItems();  
42 > > > > > > } else if (choice == 2) {  
43 > > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:");  
44 > > > > > > > String authurName = JOptionPane.showInputDialog("Enter author name:");  
45 <\*>

Problems Javadoc Declaration Search Console

PoS (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.jdt.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25)

Writable Smart Insert 21:1:900

86°F Haze ENG US 12:39 AM 5/17/2024



Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCartJava.java PoJava.java
1 package bookstore;
2 import javax.swing.JOptionPane;
3 import java.util.ArrayList;
4 import java.util.List;
5
6 public class BookCartJava {
7     AdminCartJava admin = new AdminCartJava();
8
9     void addBook() {
10        int n = Integer.parseInt(JOptionPane.showInputDialog("Enter number of books to add:"));
11        for (int i = 0; i < n; i++) {
12            String name = JOptionPane.showInputDialog("Enter book name:");
13            String authorName = JOptionPane.showInputDialog("Enter author name:");
14            try {
15                int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
16                BookCartJava.cart.addItem(name, authorName, Copies);
17            } catch (NumberFormatException e) {
18                JOptionPane.showMessageDialog(null, "Please enter a valid number.");
19            }
20        }
21    }
22
23    void removeBook() {
24        String input = JOptionPane.showInputDialog("Enter book name:").trim();
25        if (input.equals("1")) {
26            BookCartJava.cart.removeItem(1);
27        } else if (input.equals("2")) {
28            BookCartJava.cart.removeItem(2);
29        } else if (input.equals("3")) {
30            BookCartJava.cart.removeItem(3);
31        }
32    }
33
34    void printCart() {
35        if (BookCartJava.cart.size() == 0) {
36            JOptionPane.showMessageDialog(null, "Cart is empty.");
37        } else {
38            String bookName = JOptionPane.showInputDialog("Enter book name:");
39            String authorName = JOptionPane.showInputDialog("Enter author name:");
40            Book b = new Book(bookName, authorName);
41            BookCartJava.cart.removeOneItem(b);
42        }
43    }
44
45    void clearCart() {
46        BookCartJava.cart.clear();
47    }
48
49    void exit() {
50        System.exit(0);
51    }
52
53    static class Book {
54        String name;
55        String authorName;
56        int copies;
57
58        Book(String name, String authorName) {
59            this.name = name;
60            this.authorName = authorName;
61            this.copies = 1;
62        }
63    }
64
65    static class AdminCartJava {
66        List<Book> cart = new ArrayList<Book>();
67
68        void getStockItems() {
69            cart.add(new Book("Harry Potter", "J.K. Rowling", 1));
70            cart.add(new Book("The Lord of the Rings", "J.R.R. Tolkien", 2));
71            cart.add(new Book("Pride and Prejudice", "Jane Austen", 1));
72            cart.add(new Book("War and Peace", "Leo Tolstoy", 1));
73            cart.add(new Book("To Kill a Mockingbird", "Harper Lee", 1));
74        }
75
76        void addItem(String name, String authorName, int Copies) {
77            Book b = new Book(name, authorName);
78            b.setCopies(Copies);
79            cart.add(b);
80        }
81
82        void removeOneItem(Book b) {
83            cart.remove(b);
84        }
85
86        void clear() {
87            cart.clear();
88        }
89    }
90}
```

Enter book name:

amar bondhu rashed

OK Cancel

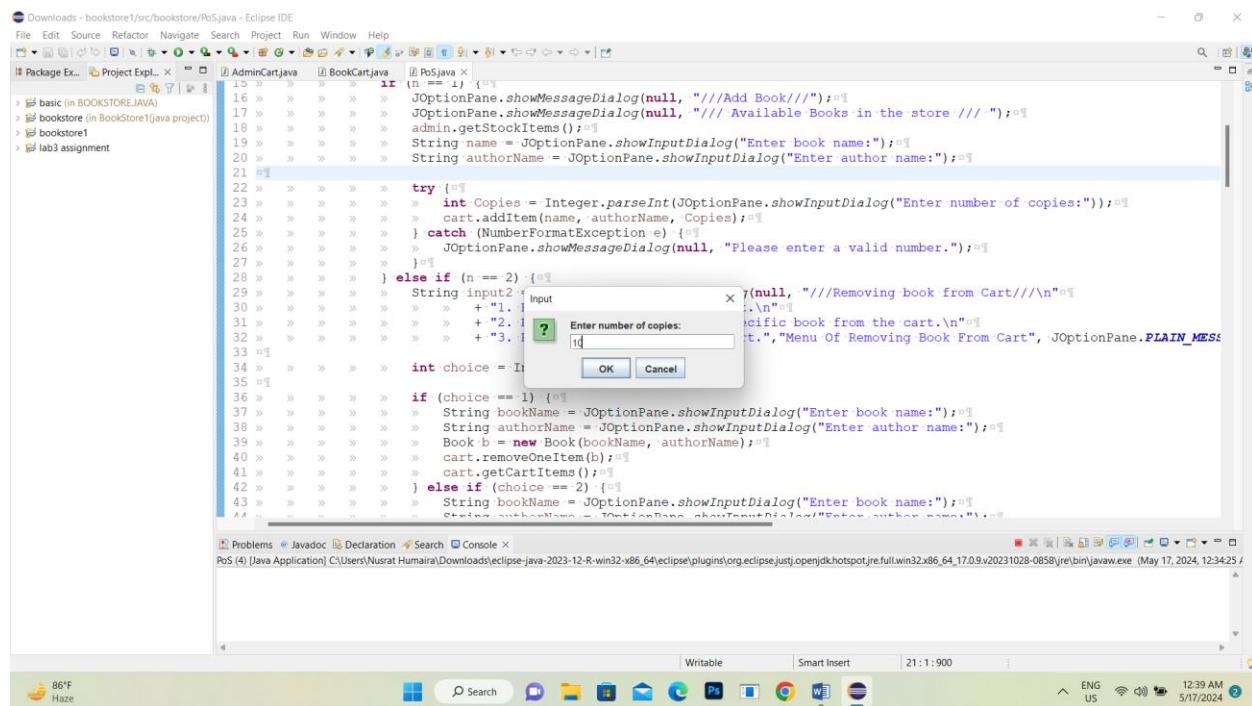
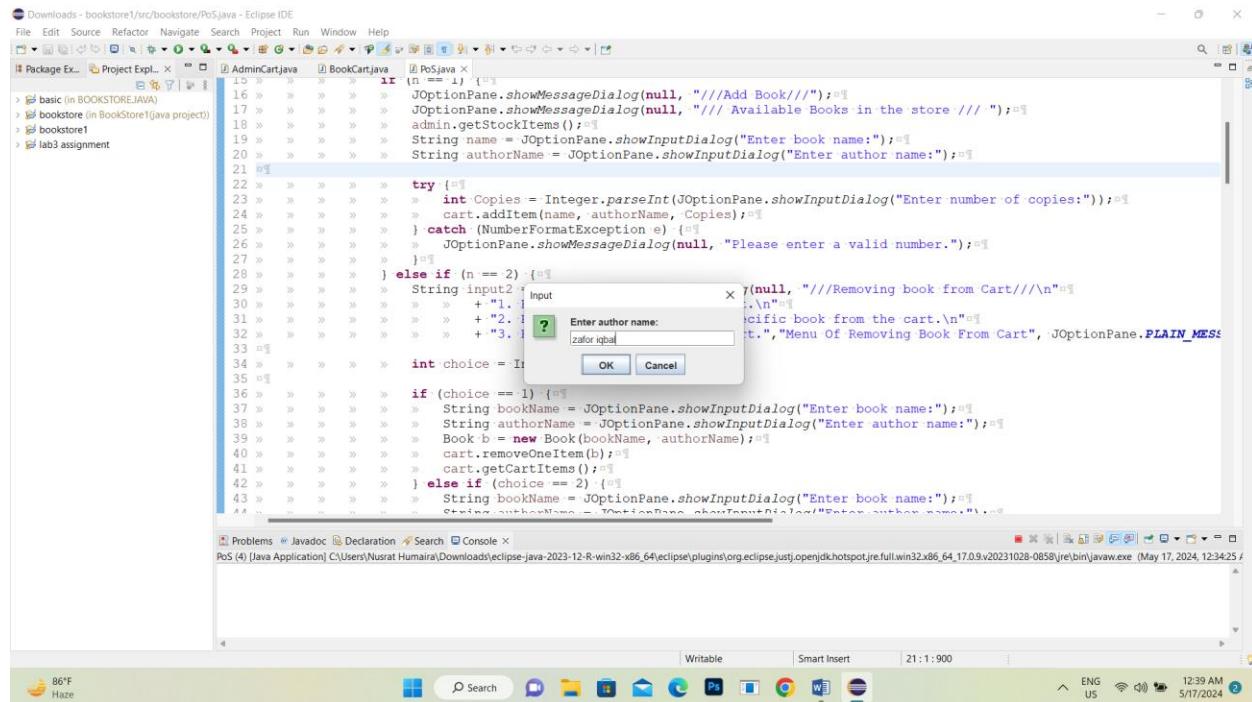
7(null, "///Removing book from Cart//\n" + "\n" + "specific book from the cart.\n" + "\n" + "t.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN\_MESSAGE);

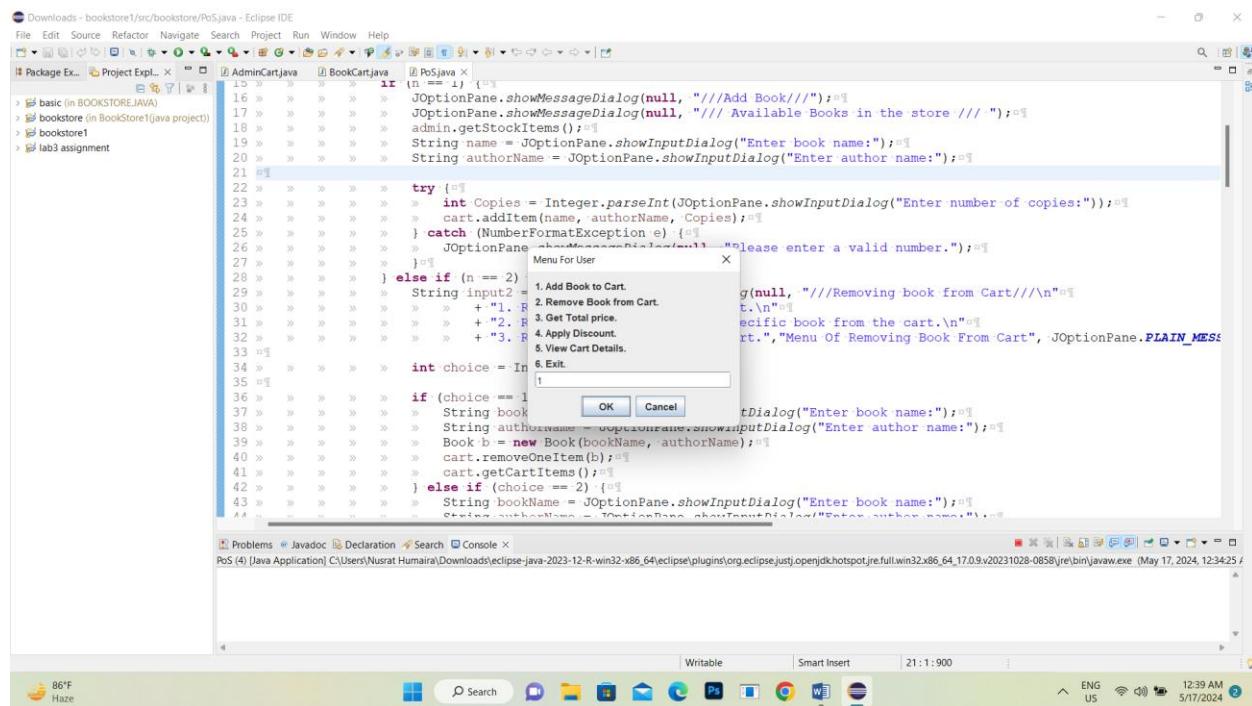
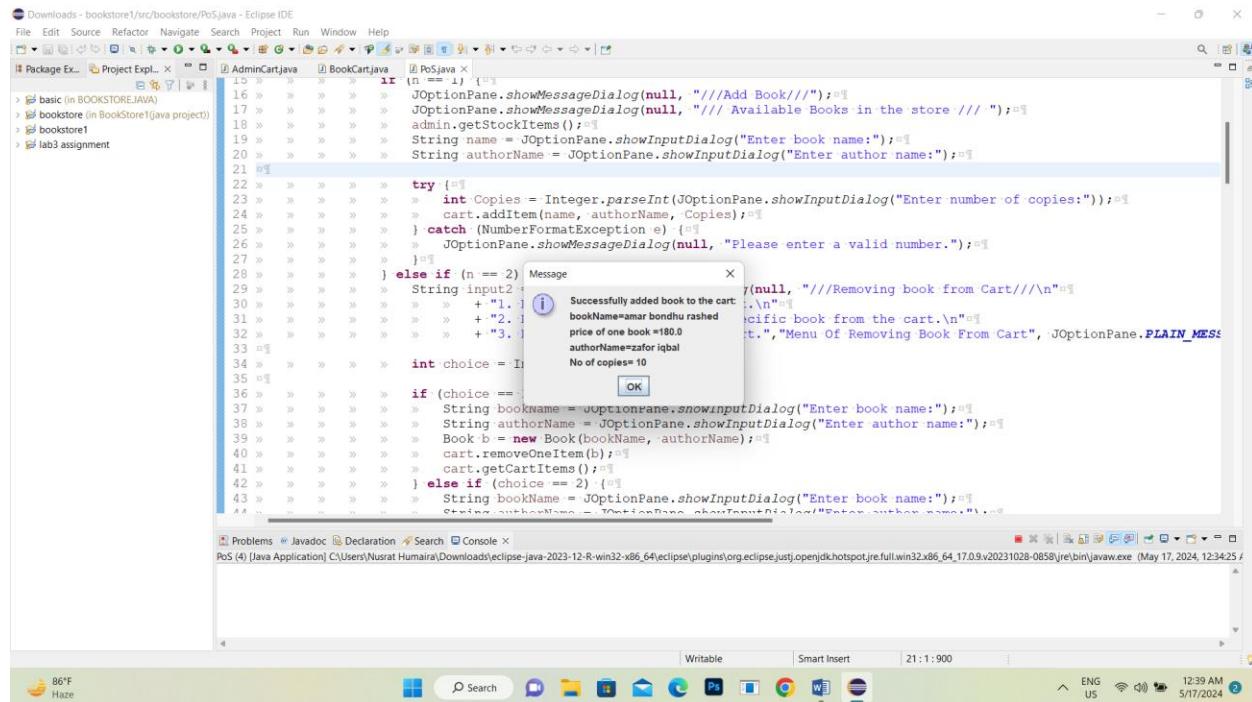
Problems Javadoc Declaration Search Console

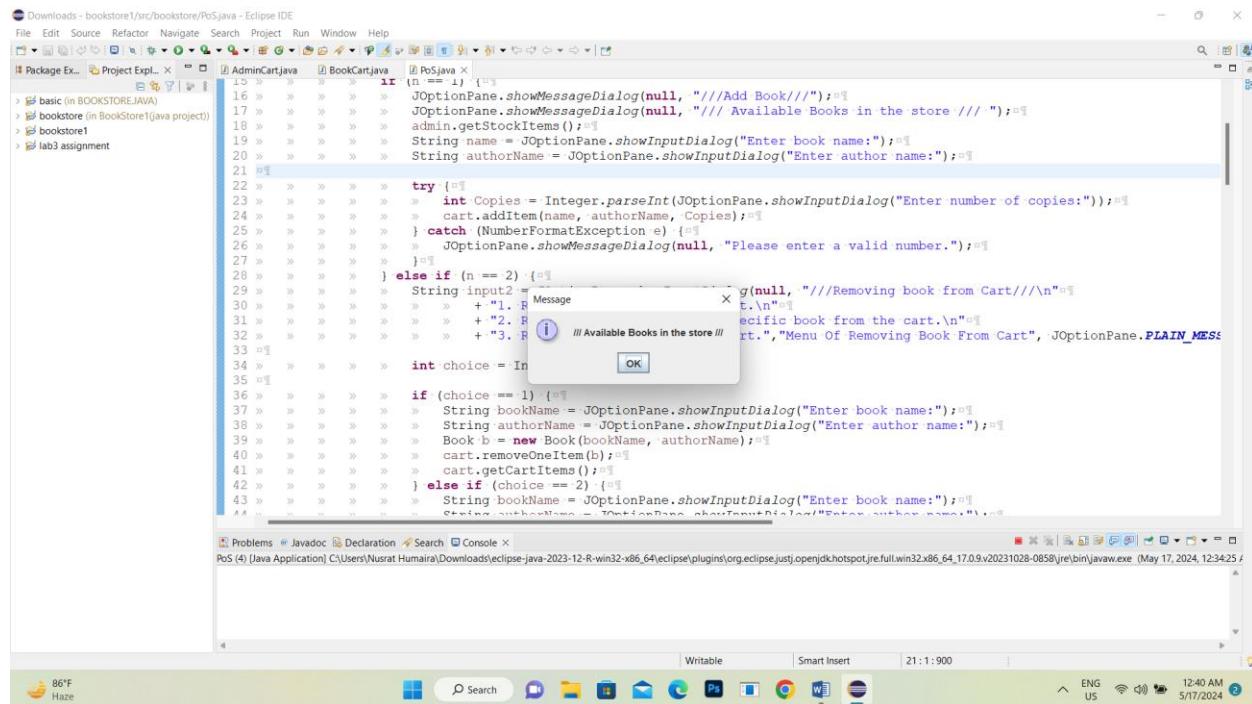
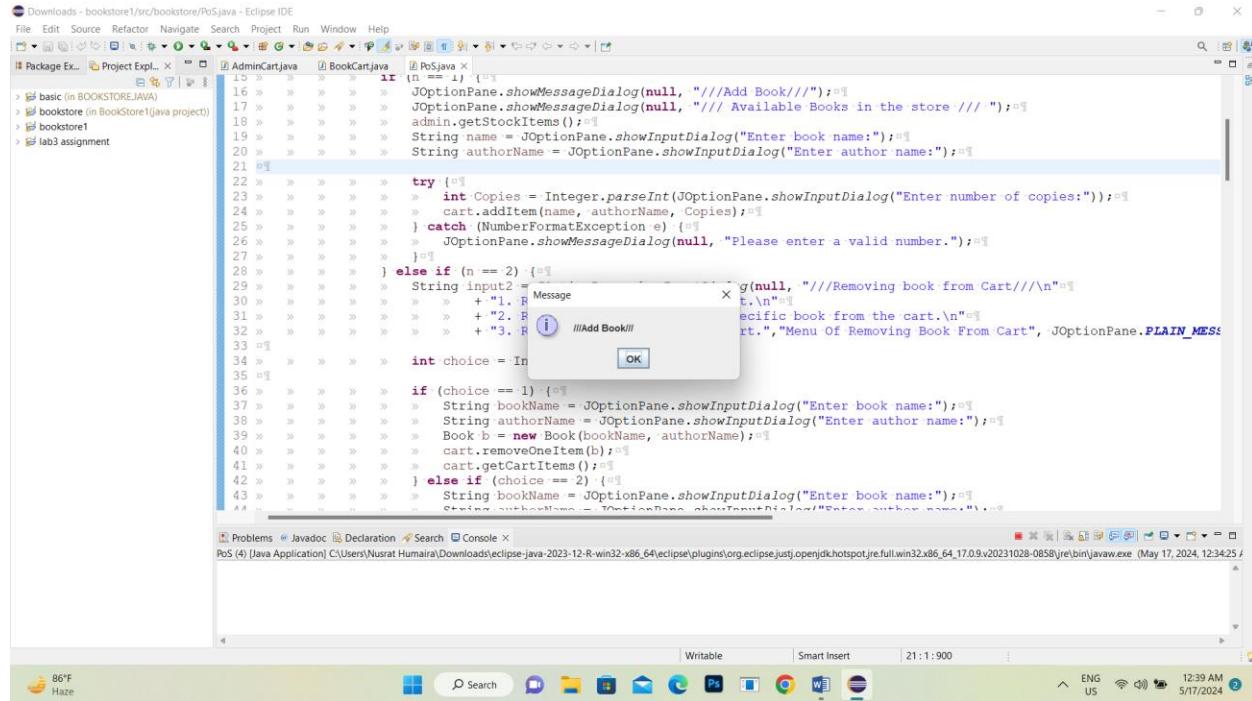
Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.jdt\openjdkhotspot\jre\full\win32x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25 /

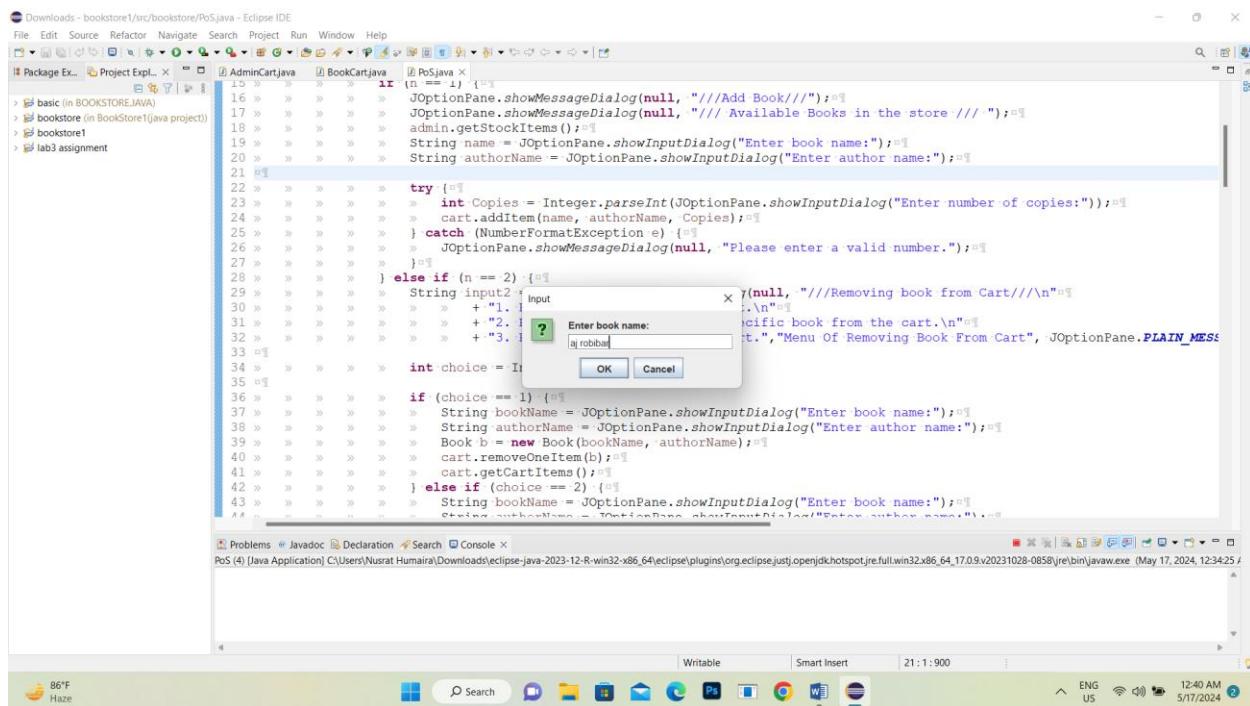
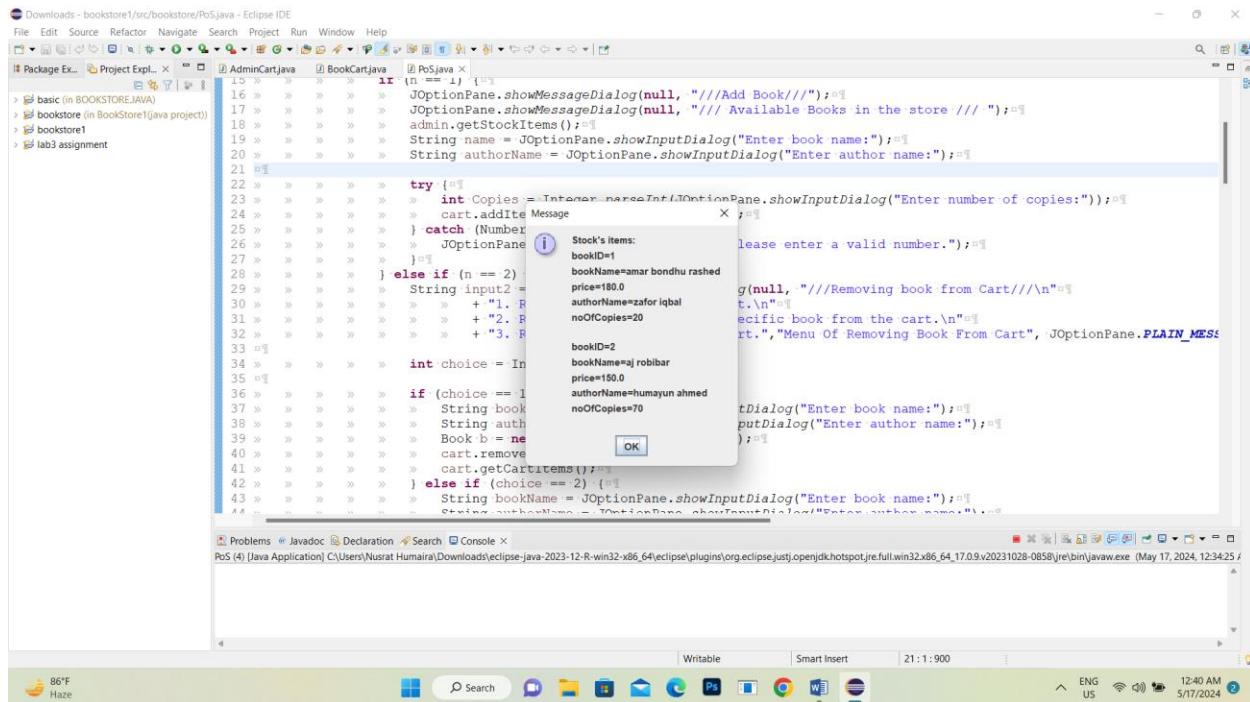
Writable Smart Insert 21:1:900

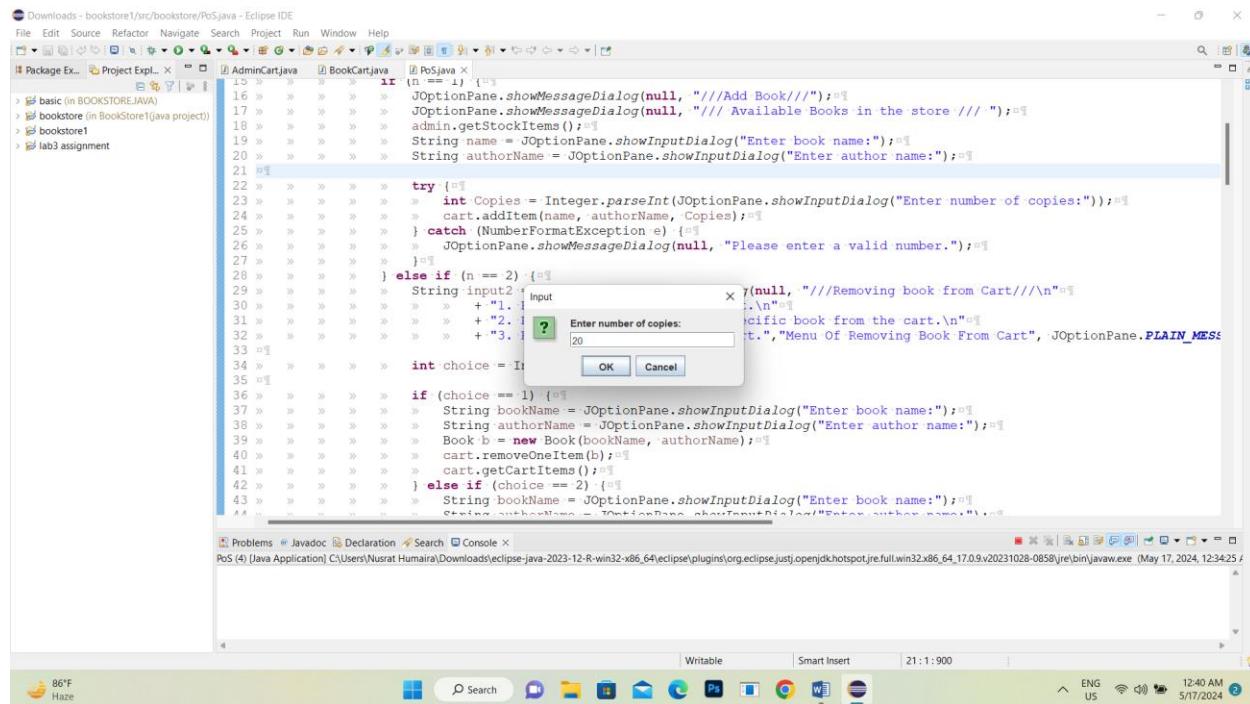
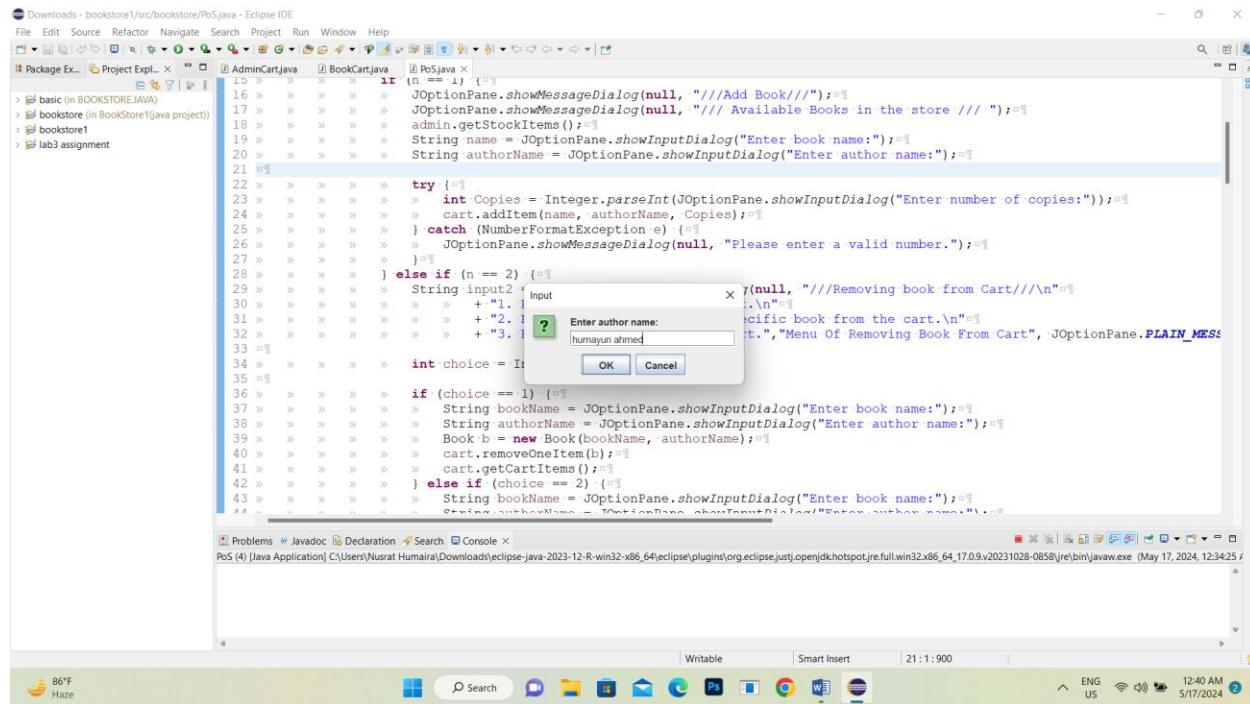
86°F Haze 12:39 AM 5/17/2024 2

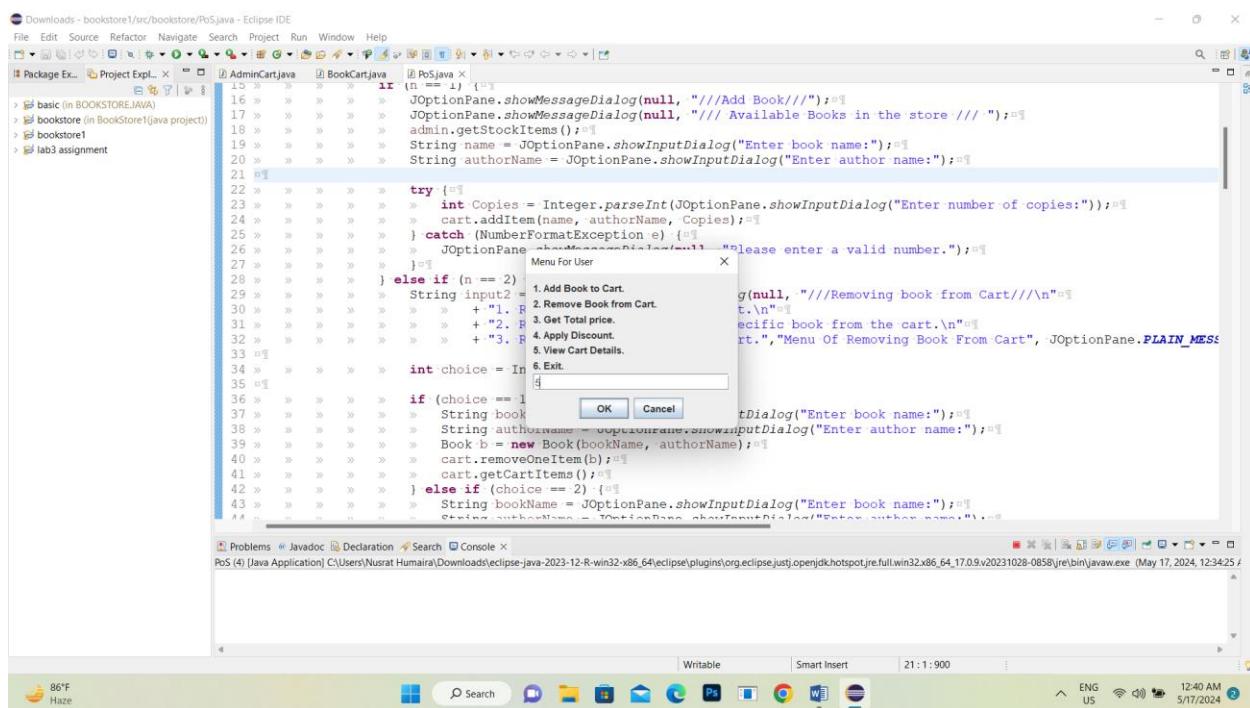
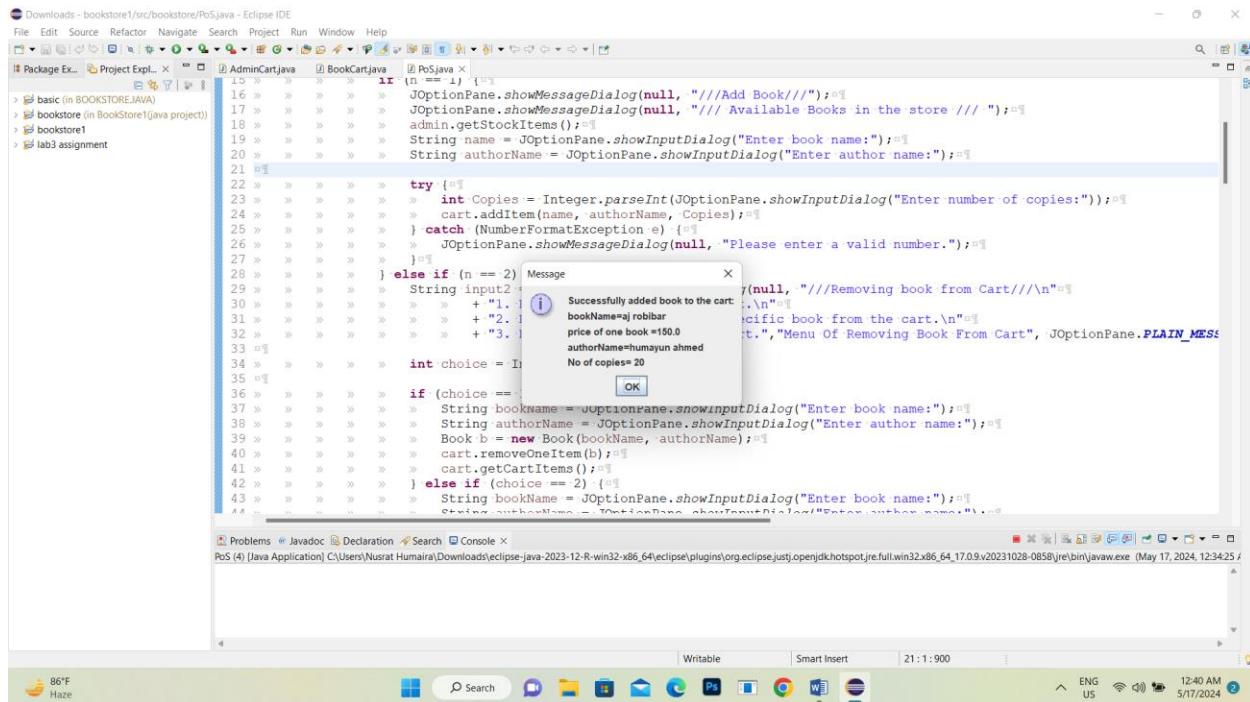












Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCartJava AdminCartJava PoJava
> lab3 assignment (in BOOKSTORE.JAVA)
> bookstore (in BookStore1.java project)
> bookstore1
> basic (in BOOKSTORE.JAVA)

16 >>> int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
17 >>> cart.addItem(name, authorName, Copies);
18 >>> JOptionPane.showMessageDialog(null, "Added book to Cart // " + name);
19 >>> admin.getStockItems();
20 >>> String name = JOptionPane.showInputDialog("Enter book name:");
21 >>> String authorName = JOptionPane.showInputDialog("Enter author name:");
22 >>> try {
23 >>>     int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 >>>     cart.addItem(name, authorName, Copies);
25 >>> } catch (NumberFormatException e) {
26 >>>     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 >>> }
28 >>> } else if (n == 2) {
29 >>>     String input2 = JOptionPane.showInputDialog("Enter book name:");
30 >>>     String auth = JOptionPane.showInputDialog("Enter author name:");
31 >>>     Book b = new Book(input2, auth);
32 >>>     cart.removeOneItem(b);
33 >>>     JOptionPane.showMessageDialog(null, "Removed book from Cart // " + input2);
34 >>>     String choice = JOptionPane.showInputDialog("Enter choice: 1. Add Book to Cart 2. Remove Book from Cart 3. Get Total price. 4. Apply Discount. 5. View Cart Details. 6. Exit.");
35 >>>     int choice = Integer.parseInt(choice);
36 >>>     if (choice == 1) {
37 >>>         String book = JOptionPane.showInputDialog("Enter book name:");
38 >>>         String authName = JOptionPane.showInputDialog("Enter author name:");
39 >>>         Book b = new Book(book, authName);
40 >>>         cart.addItem(b);
41 >>>     } else if (choice == 2) {
42 >>>         String bookName = JOptionPane.showInputDialog("Enter book name:");
43 >>>         String authorName = JOptionPane.showInputDialog("Enter author name:");
        }
    }
}

```

Cart's items:

- bookName=amar bondhu rashed  
price of one book =180.0  
authorName=zafar iqbal  
No of copies=10
- bookName=aj rolibar  
price of one book =150.0  
authorName=humayun ahmed  
No of copies=20

tDialog("Enter book name:");
putDialog("Enter author name:");

12:40 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Project Explorer Package Explorer BookCartJava AdminCartJava PoJava
> lab3 assignment (in BOOKSTORE.JAVA)
> bookstore (in BookStore1.java project)
> bookstore1
> basic (in BOOKSTORE.JAVA)

15 >>> if (n == 1) {
16 >>>     JOptionPane.showMessageDialog(null, "///Add Book///");
17 >>>     JOptionPane.showMessageDialog(null, "/// Available Books in the store // " + name);
18 >>>     admin.getStockItems();
19 >>>     String name = JOptionPane.showInputDialog("Enter book name:");
20 >>>     String authorName = JOptionPane.showInputDialog("Enter author name:");
21 >>>     try {
22 >>>         int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
23 >>>         cart.addItem(name, authorName, Copies);
24 >>>     } catch (NumberFormatException e) {
25 >>>         JOptionPane.showMessageDialog(null, "Please enter a valid number.");
26 >>>     }
27 >>> }
28 >>> } else if (n == 2) {
29 >>>     String input2 = JOptionPane.showInputDialog("Enter book name:");
30 >>>     String auth = JOptionPane.showInputDialog("Enter author name:");
31 >>>     Book b = new Book(input2, auth);
32 >>>     cart.removeOneItem(b);
33 >>>     JOptionPane.showMessageDialog(null, "Removed book from Cart // " + input2);
34 >>>     String choice = JOptionPane.showInputDialog("Enter choice: 1. Add Book to Cart 2. Remove Book from Cart 3. Get Total price. 4. Apply Discount. 5. View Cart Details. 6. Exit.");
35 >>>     int choice = Integer.parseInt(choice);
36 >>>     if (choice == 1) {
37 >>>         String book = JOptionPane.showInputDialog("Enter book name:");
38 >>>         String authName = JOptionPane.showInputDialog("Enter author name:");
39 >>>         Book b = new Book(book, authName);
40 >>>         cart.addItem(b);
41 >>>     } else if (choice == 2) {
42 >>>         String bookName = JOptionPane.showInputDialog("Enter book name:");
43 >>>         String authorName = JOptionPane.showInputDialog("Enter author name:");
        }
    }
}

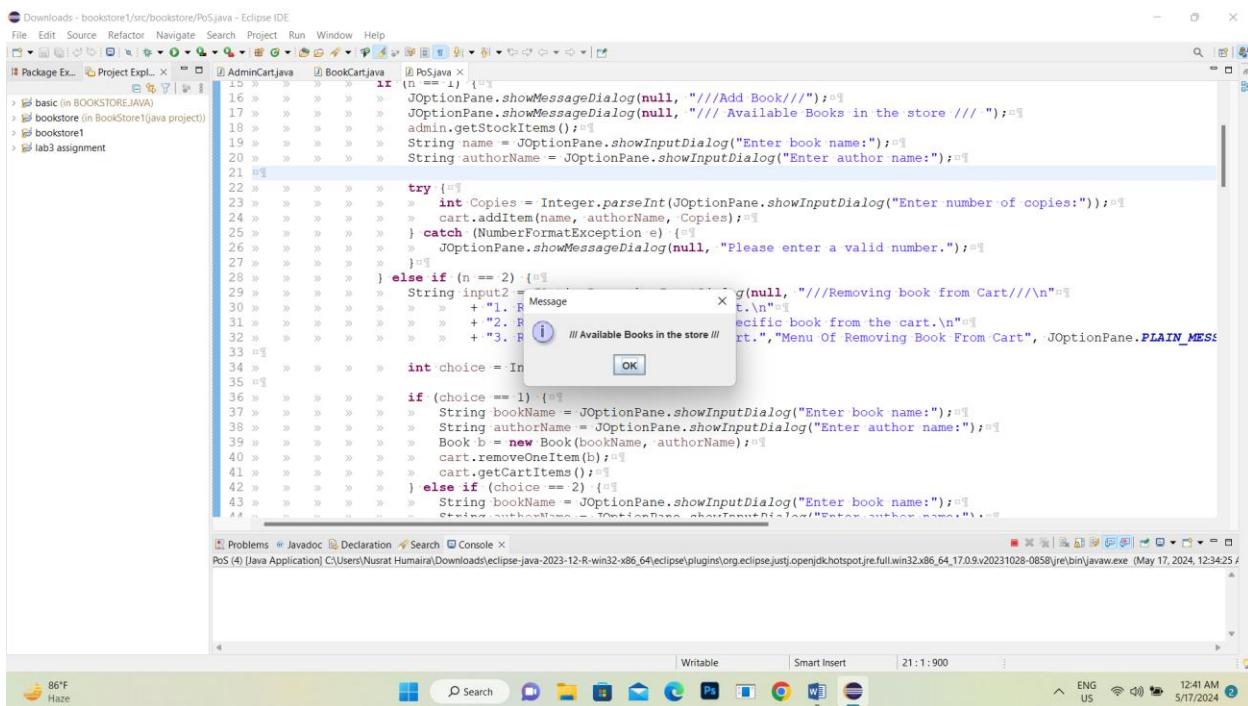
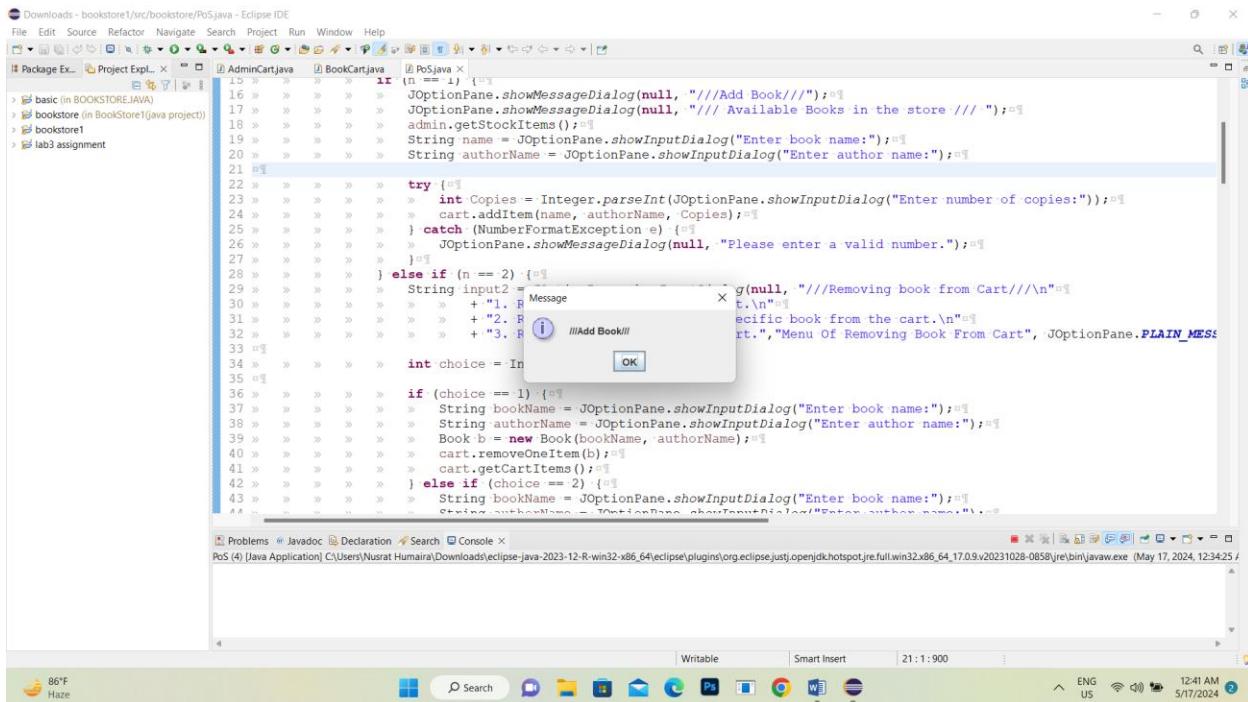
```

Menu For User

1. Add Book to Cart.
2. Remove Book from Cart.
3. Get Total price.
4. Apply Discount.
5. View Cart Details.
6. Exit.

tDialog("Enter book name:");
putDialog("Enter author name:");

12:41 AM 5/17/2024

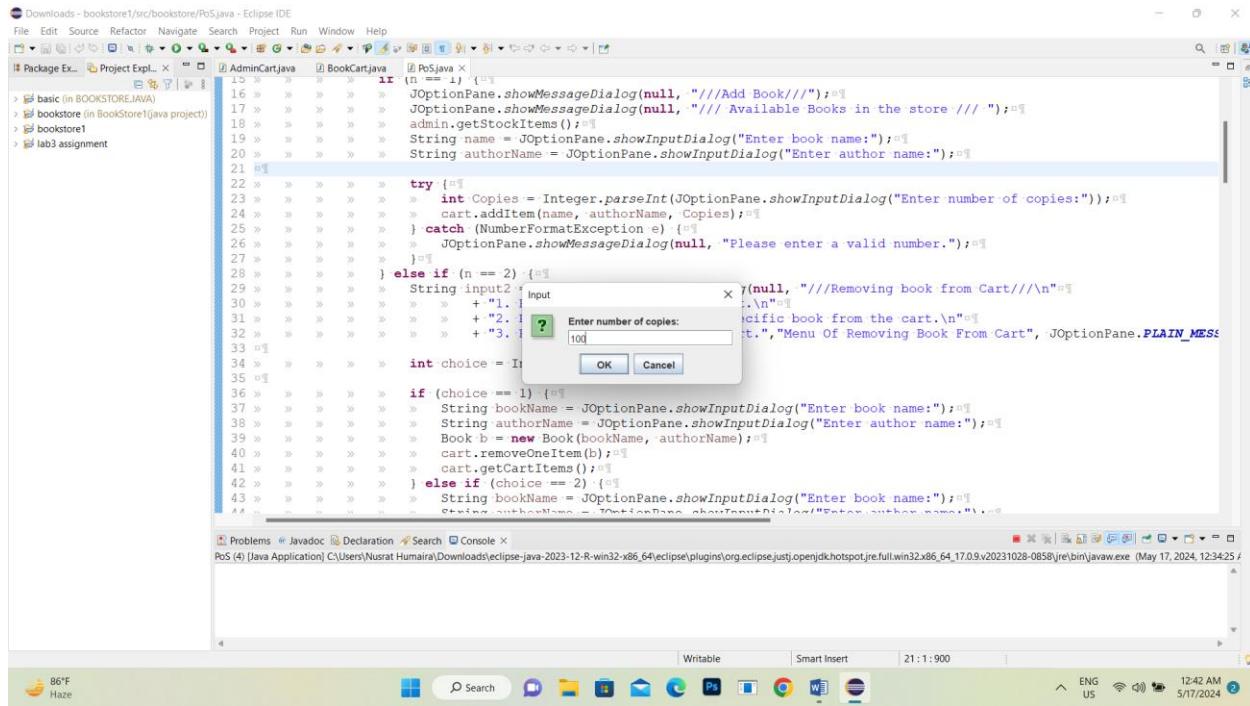
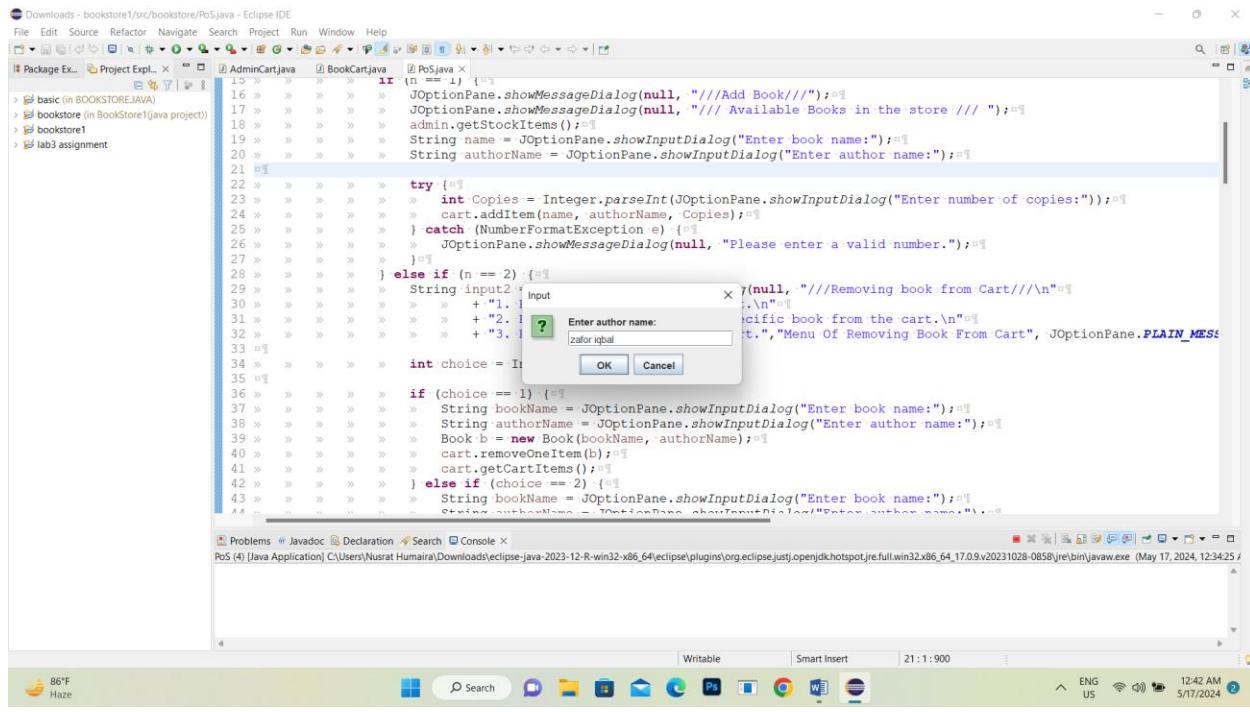


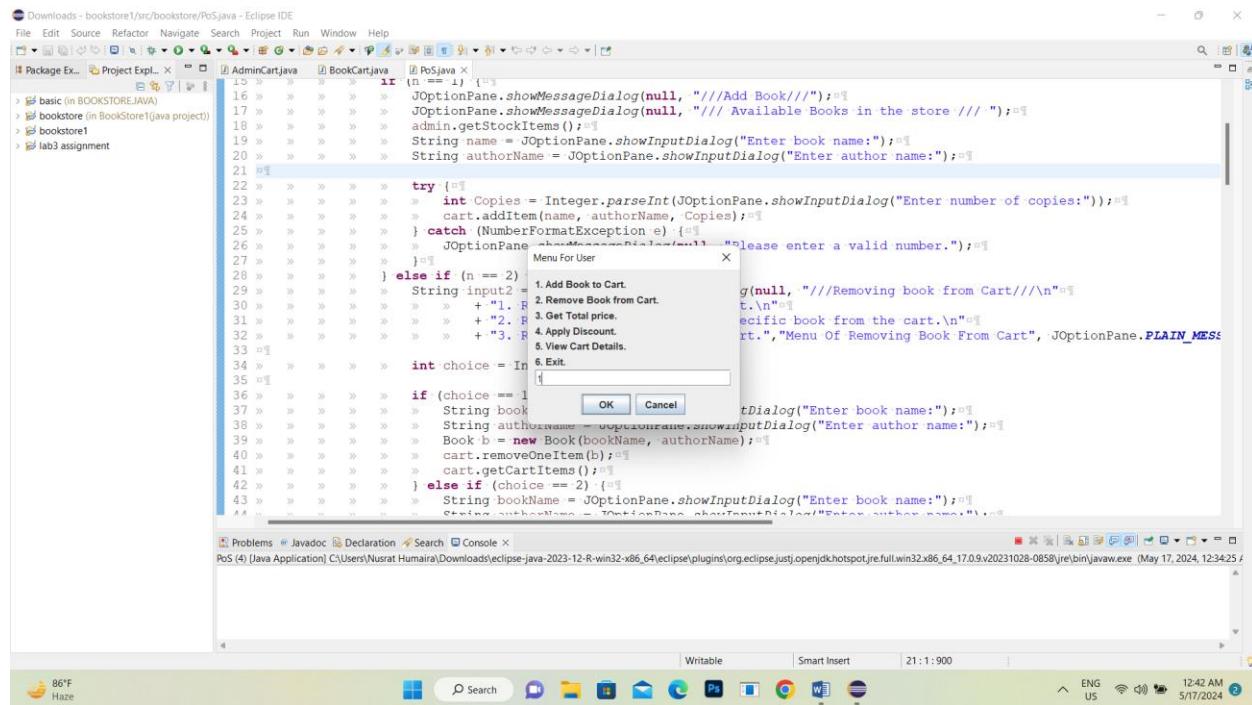
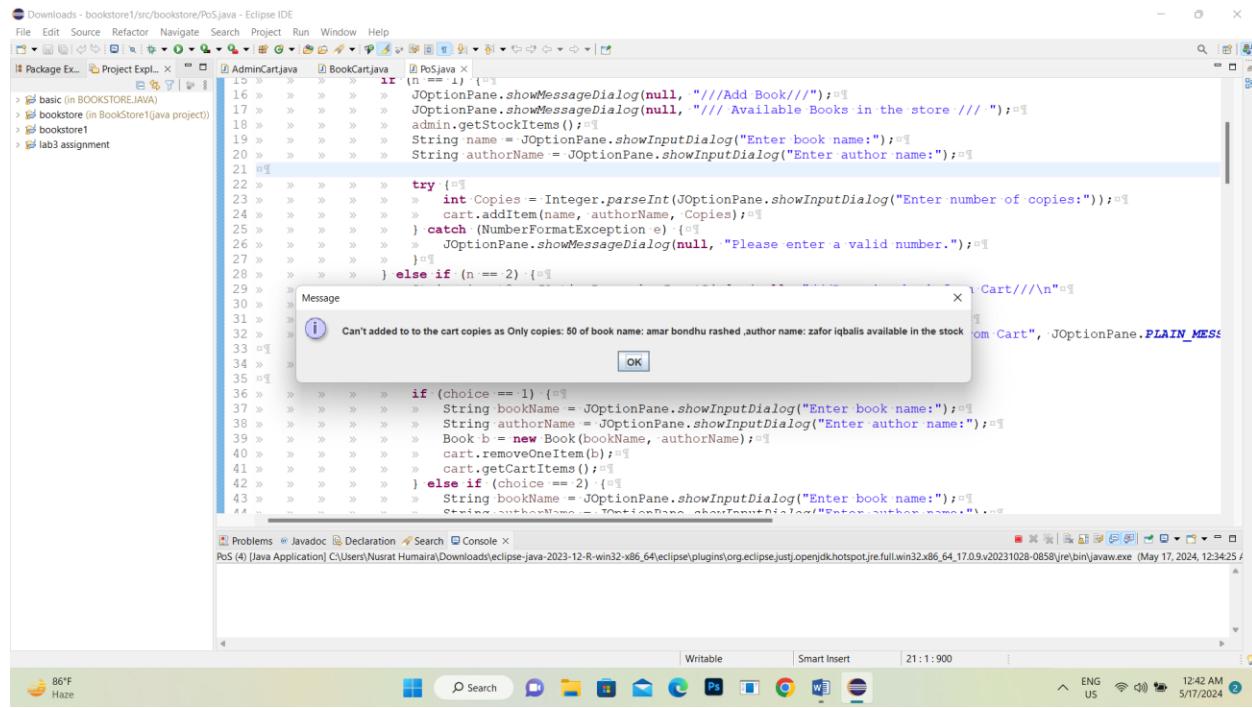
Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

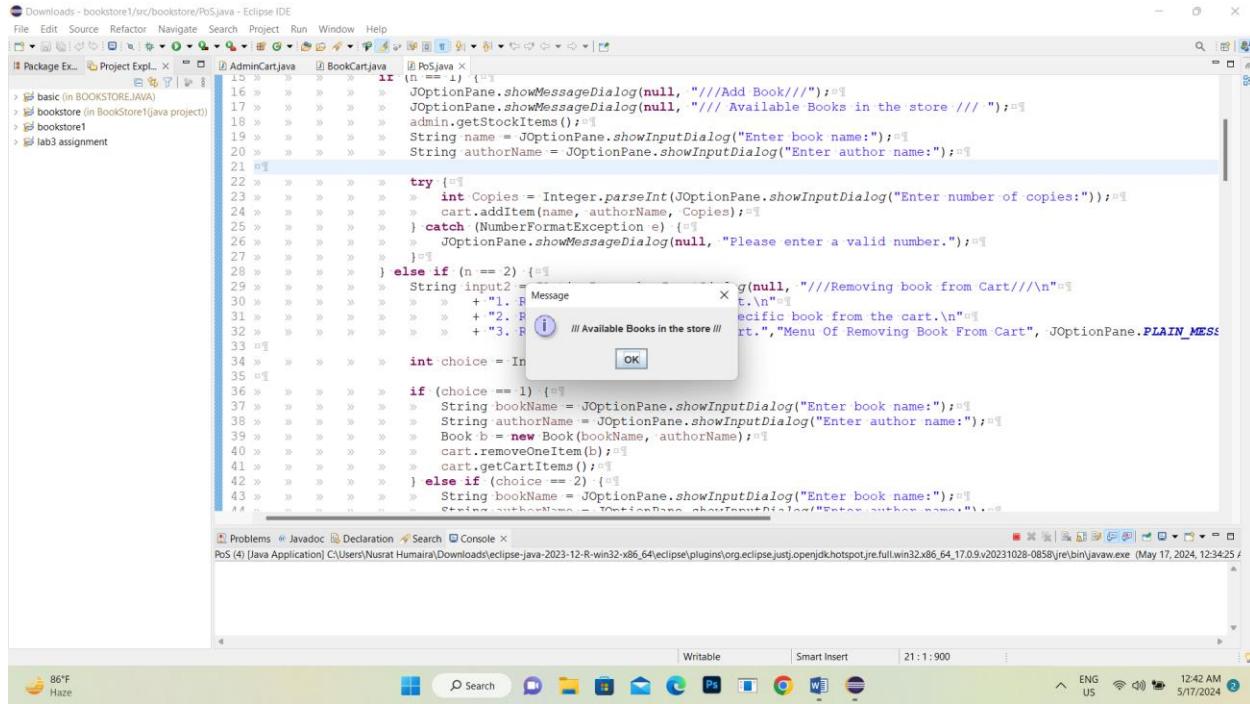
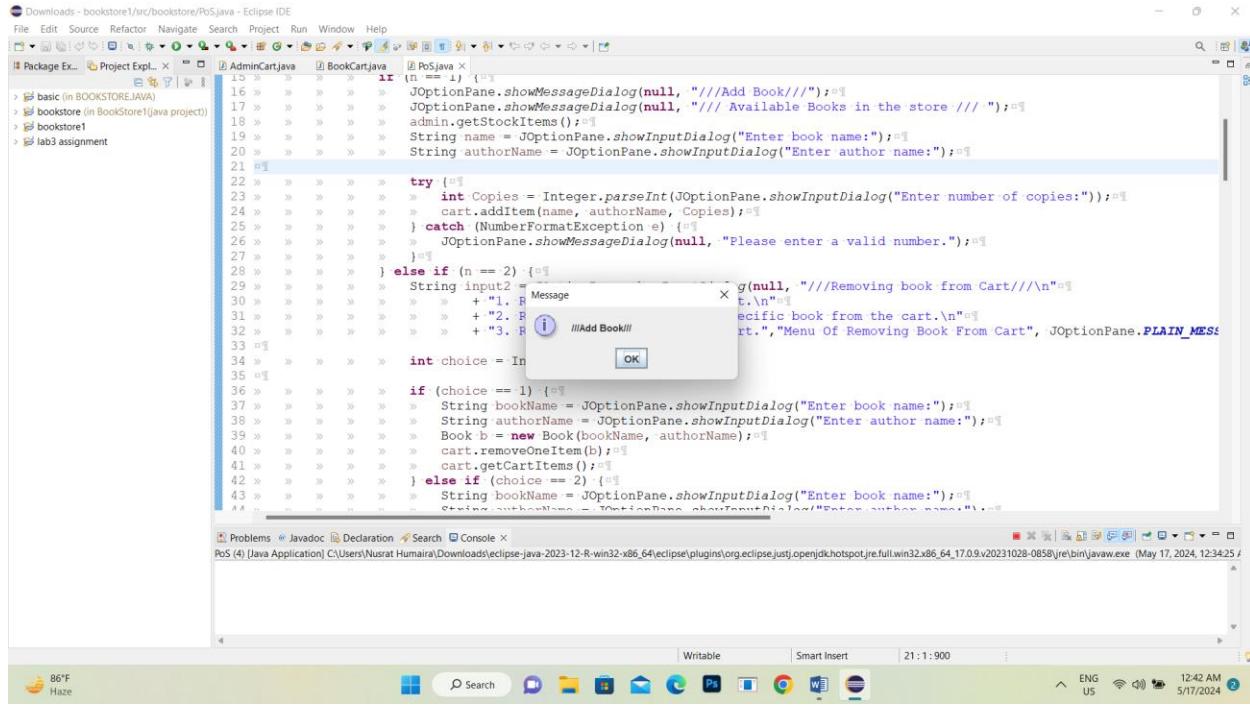
```
1. package PoJava;
2. 
3. import javax.swing.JOptionPane;
4. import java.util.ArrayList;
5. import java.util.List;
6. 
7. public class BookCartJava {
8. 
9.     static List<Book> cart = new ArrayList<Book>();
10. 
11.     static void addBook() {
12.         int n = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
13.         Book book = new Book();
14.         book.setName("amar bondhu rashed");
15.         book.setAuthor("zafor iqbal");
16.         book.setPrice(180.0);
17.         book.setNoOfCopies(n);
18.         cart.add(book);
19.     }
20. 
21.     static void removeBook() {
22.         int choice = Integer.parseInt(JOptionPane.showInputDialog("Enter book name:"));
23.         String bookName = "amar bondhu rashed";
24.         String authorName = "zafor iqbal";
25.         int price = 180.0;
26.         int noOfCopies = 20;
27.         Book b = new Book(bookName, authorName, price, noOfCopies);
28.         if (choice == 1) {
29.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
30.         } else if (choice == 2) {
31.             JOptionPane.showMessageDialog(null, "///Removing book from Cart//\n\nspecific book from the cart.\n\n", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
32.             cart.removeOneItem(b);
33.         } else if (choice == 3) {
34.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
35.         }
36.     }
37. 
38.     static void showCart() {
39.         String str = "Stock's items:\n";
40.         for (Book book : cart) {
41.             str += "bookID=" + book.getBookID() + "\n";
42.             str += "bookName=" + book.getName() + "\n";
43.             str += "authorName=" + book.getAuthorName() + "\n";
44.             str += "price=" + book.getPrice() + "\n";
45.             str += "noOfCopies=" + book.getNoOfCopies() + "\n";
46.         }
47.         JOptionPane.showMessageDialog(null, str);
48.     }
49. 
50.     static void getStockItems() {
51.         Book book = new Book();
52.         book.setName("amar bondhu rashed");
53.         book.setAuthor("zafor iqbal");
54.         book.setPrice(180.0);
55.         book.setNoOfCopies(20);
56.         cart.add(book);
57.     }
58. 
59.     static void main(String[] args) {
60.         int choice = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
61.         Book book = new Book();
62.         book.setName("amar bondhu rashed");
63.         book.setAuthor("zafor iqbal");
64.         book.setPrice(180.0);
65.         book.setNoOfCopies(20);
66.         cart.add(book);
67.         if (choice == 1) {
68.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
69.         } else if (choice == 2) {
70.             JOptionPane.showMessageDialog(null, "///Removing book from Cart//\n\nspecific book from the cart.\n\n", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
71.             cart.removeOneItem(book);
72.         } else if (choice == 3) {
73.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
74.         }
75.     }
76. }
```

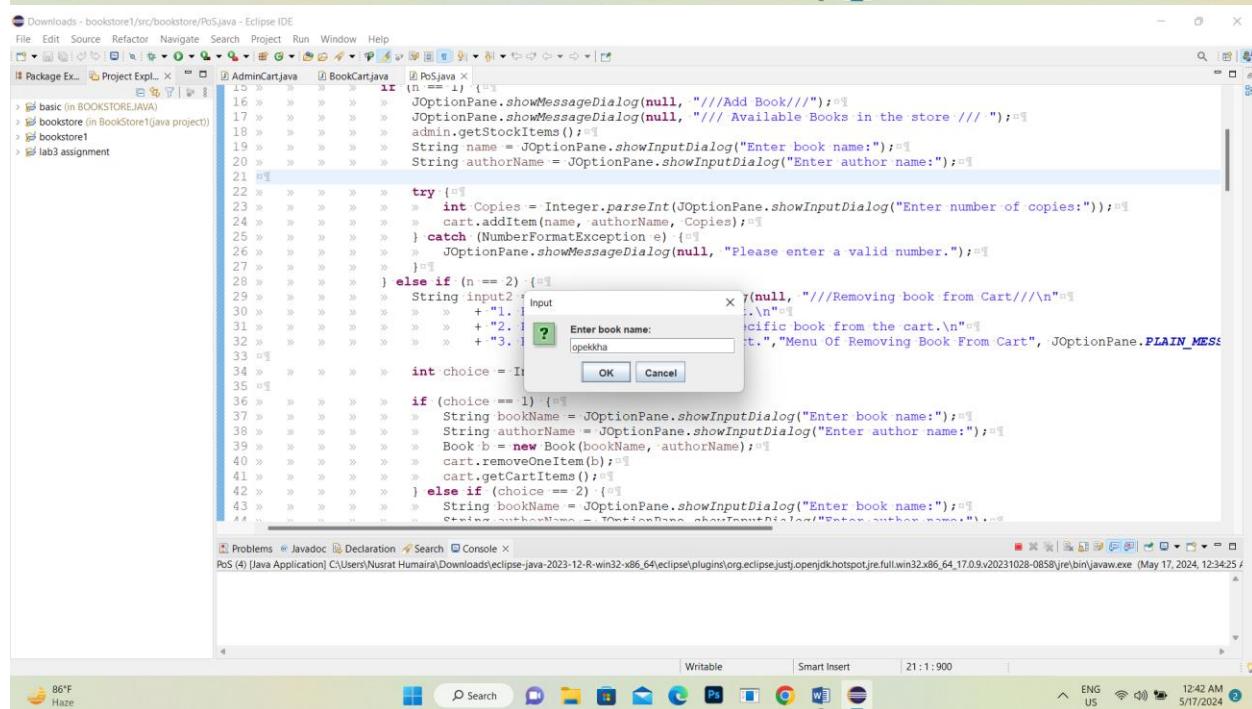
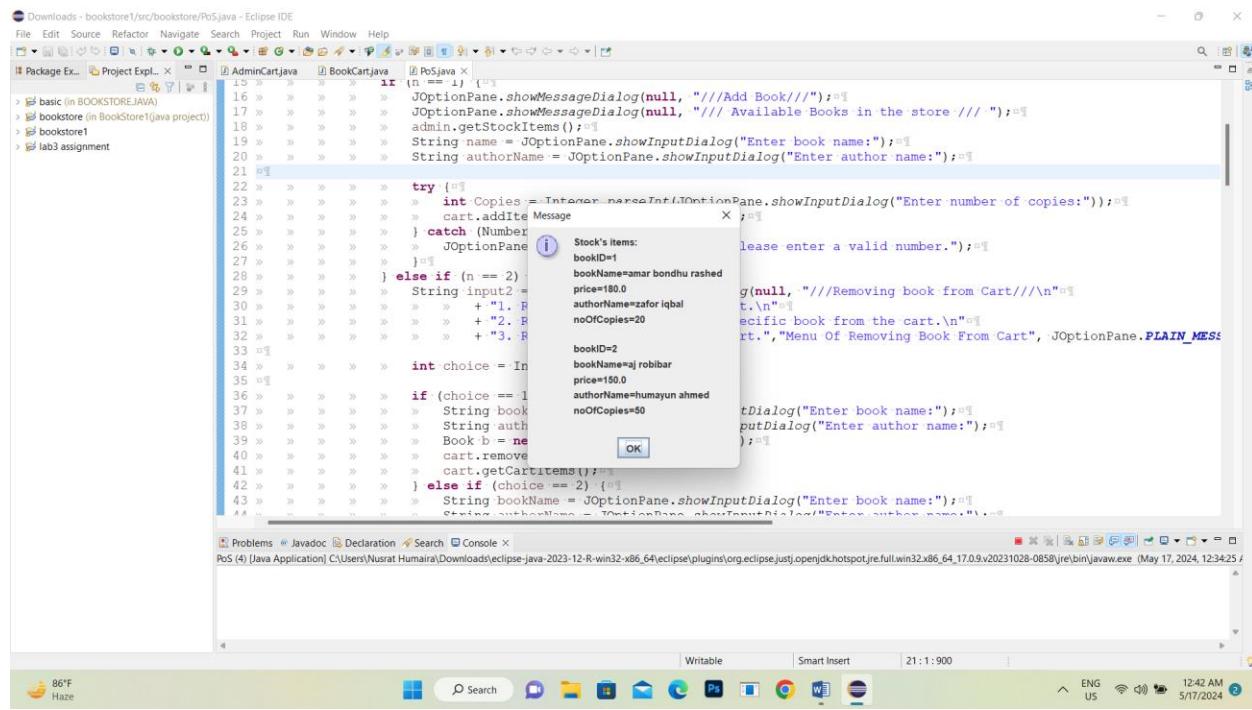
Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

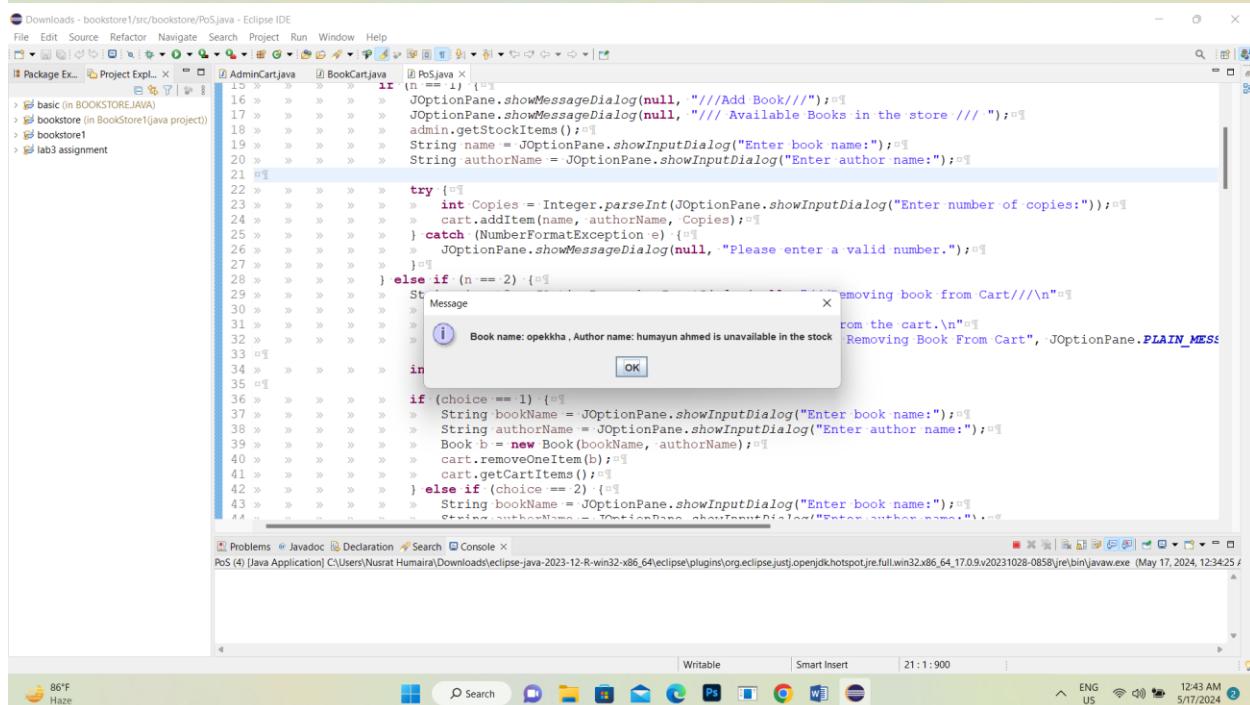
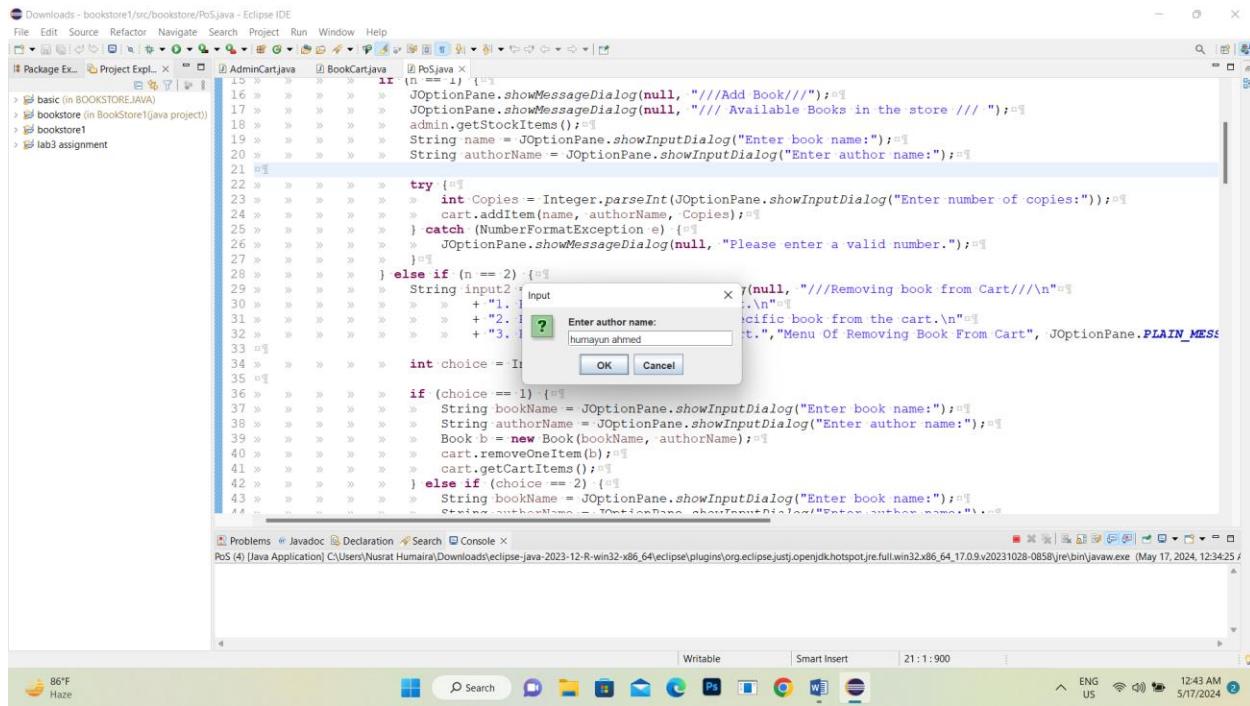
```
1. package PoJava;
2. 
3. import javax.swing.JOptionPane;
4. import java.util.ArrayList;
5. import java.util.List;
6. 
7. public class BookCartJava {
8. 
9.     static List<Book> cart = new ArrayList<Book>();
10. 
11.     static void addBook() {
12.         int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
13.         Book book = new Book();
14.         book.setName("amar bondhu rashed");
15.         book.setAuthor("zafor iqbal");
16.         book.setPrice(180.0);
17.         book.setNoOfCopies(Copies);
18.         cart.add(book);
19.     }
20. 
21.     static void removeBook() {
22.         int choice = Integer.parseInt(JOptionPane.showInputDialog("Enter book name:"));
23.         String bookName = "amar bondhu rashed";
24.         String authorName = "zafor iqbal";
25.         int price = 180.0;
26.         int noOfCopies = 20;
27.         Book b = new Book(bookName, authorName, price, noOfCopies);
28.         if (choice == 1) {
29.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
30.         } else if (choice == 2) {
31.             JOptionPane.showMessageDialog(null, "///Removing book from Cart//\n\nspecific book from the cart.\n\n", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
32.             cart.removeOneItem(b);
33.         } else if (choice == 3) {
34.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
35.         }
36.     }
37. 
38.     static void showCart() {
39.         String str = "Stock's items:\n";
40.         for (Book book : cart) {
41.             str += "bookID=" + book.getBookID() + "\n";
42.             str += "bookName=" + book.getName() + "\n";
43.             str += "authorName=" + book.getAuthorName() + "\n";
44.             str += "price=" + book.getPrice() + "\n";
45.             str += "noOfCopies=" + book.getNoOfCopies() + "\n";
46.         }
47.         JOptionPane.showMessageDialog(null, str);
48.     }
49. 
50.     static void getStockItems() {
51.         Book book = new Book();
52.         book.setName("amar bondhu rashed");
53.         book.setAuthor("zafor iqbal");
54.         book.setPrice(180.0);
55.         book.setNoOfCopies(20);
56.         cart.add(book);
57.     }
58. 
59.     static void main(String[] args) {
60.         int choice = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
61.         Book book = new Book();
62.         book.setName("amar bondhu rashed");
63.         book.setAuthor("zafor iqbal");
64.         book.setPrice(180.0);
65.         book.setNoOfCopies(20);
66.         cart.add(book);
67.         if (choice == 1) {
68.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
69.         } else if (choice == 2) {
70.             JOptionPane.showMessageDialog(null, "///Removing book from Cart//\n\nspecific book from the cart.\n\n", "Menu Of Removing Book From Cart", JOptionPane.PLAIN_MESSAGE);
71.             cart.removeOneItem(book);
72.         } else if (choice == 3) {
73.             JOptionPane.showMessageDialog(null, "Please enter a valid number.");
74.         }
75.     }
76. }
```

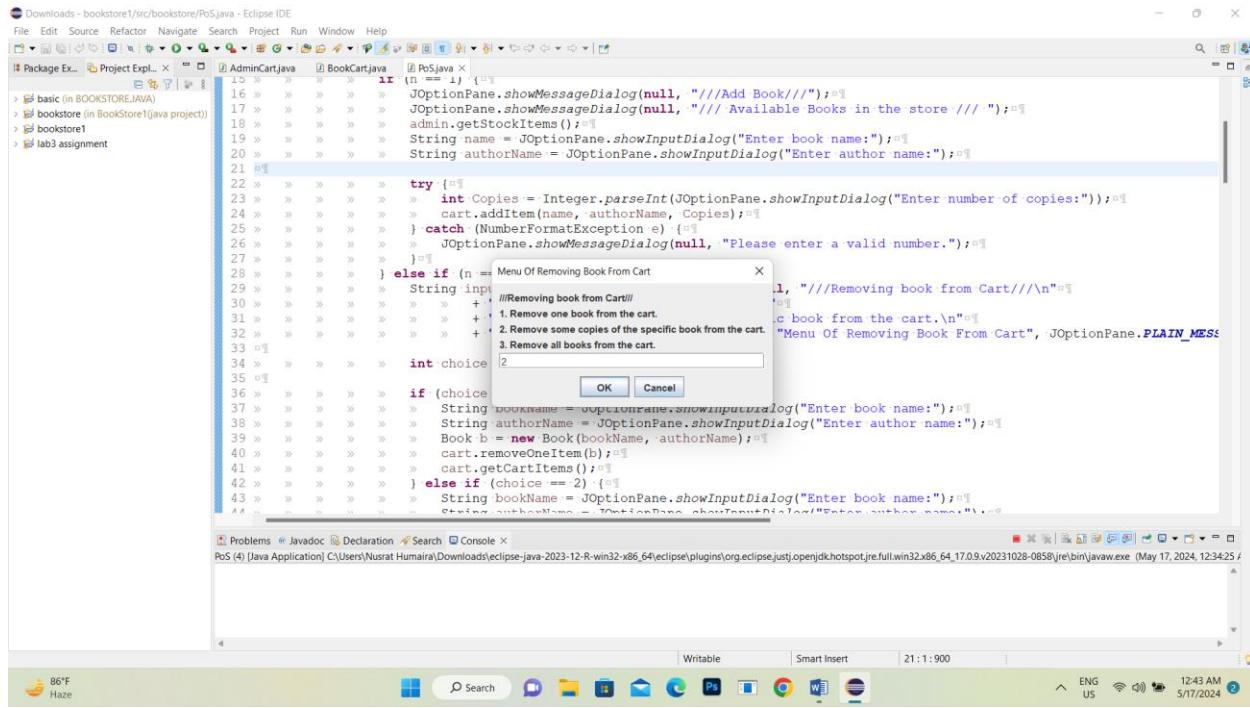
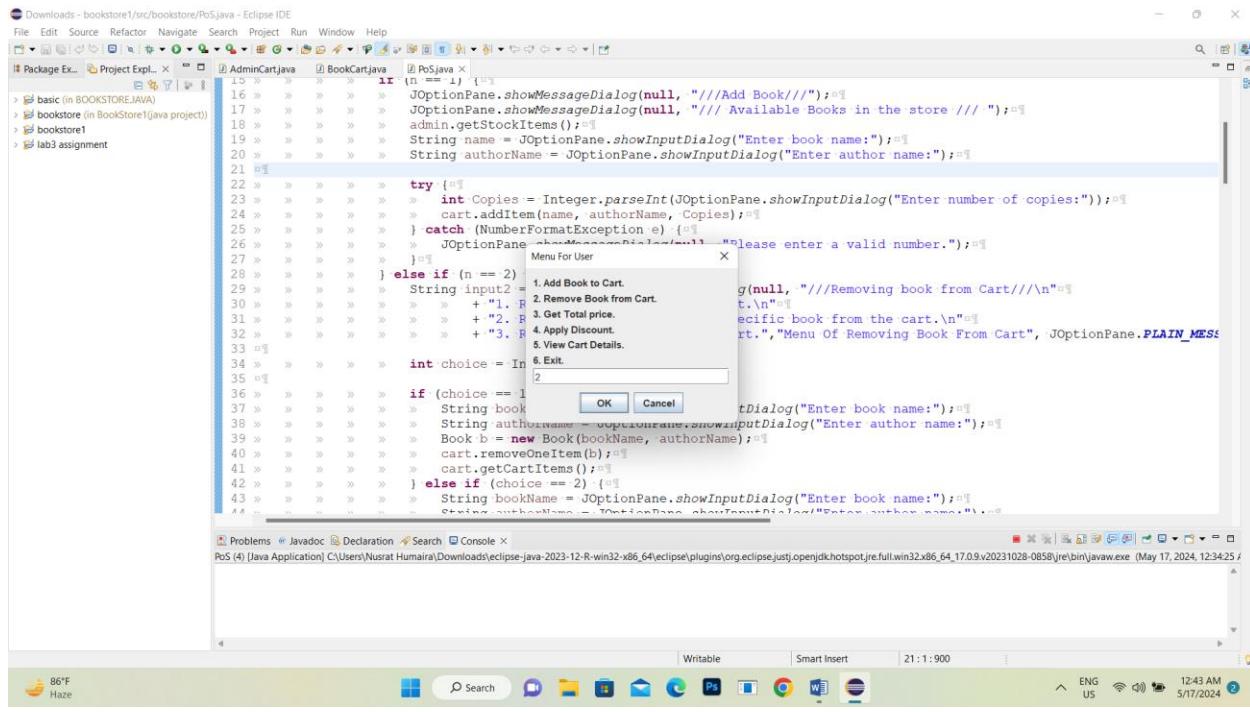


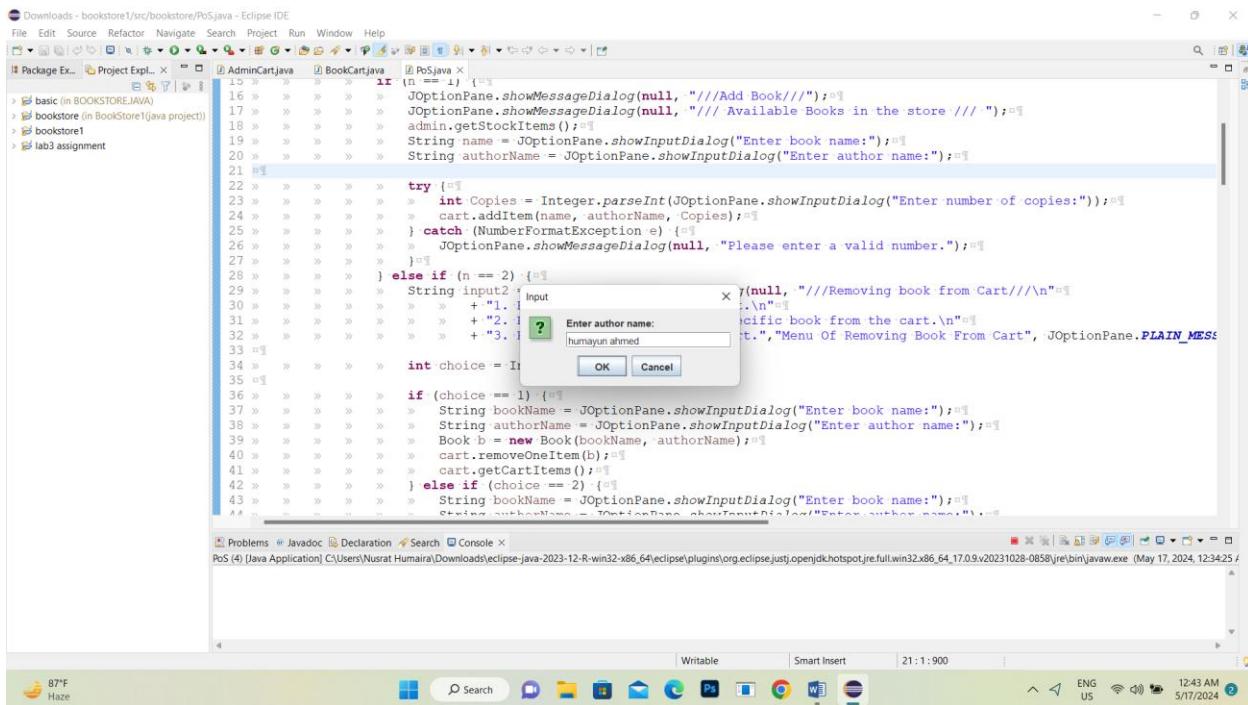
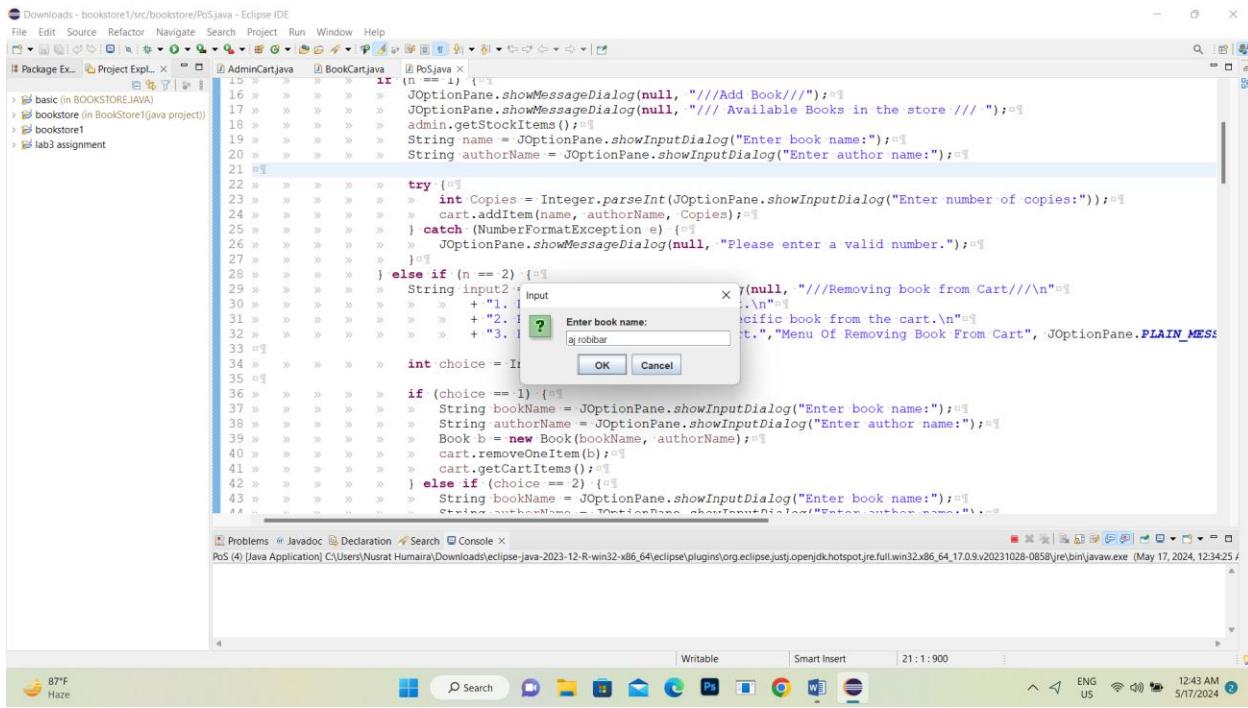


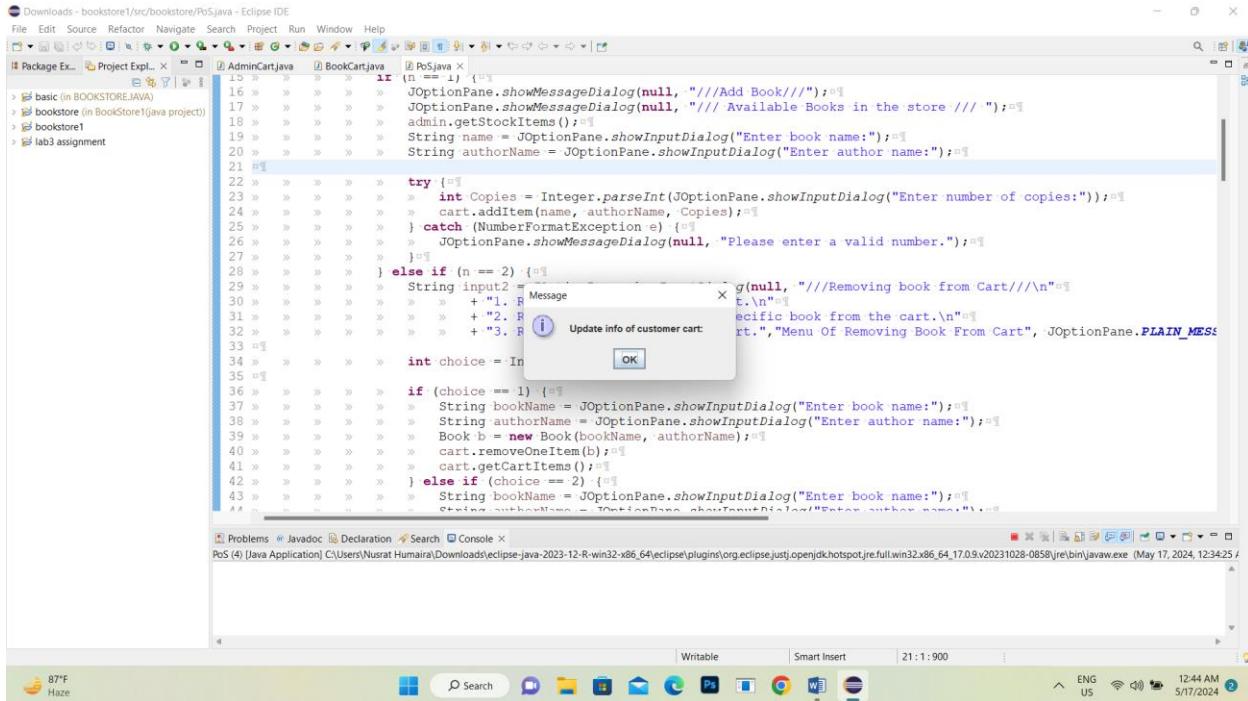
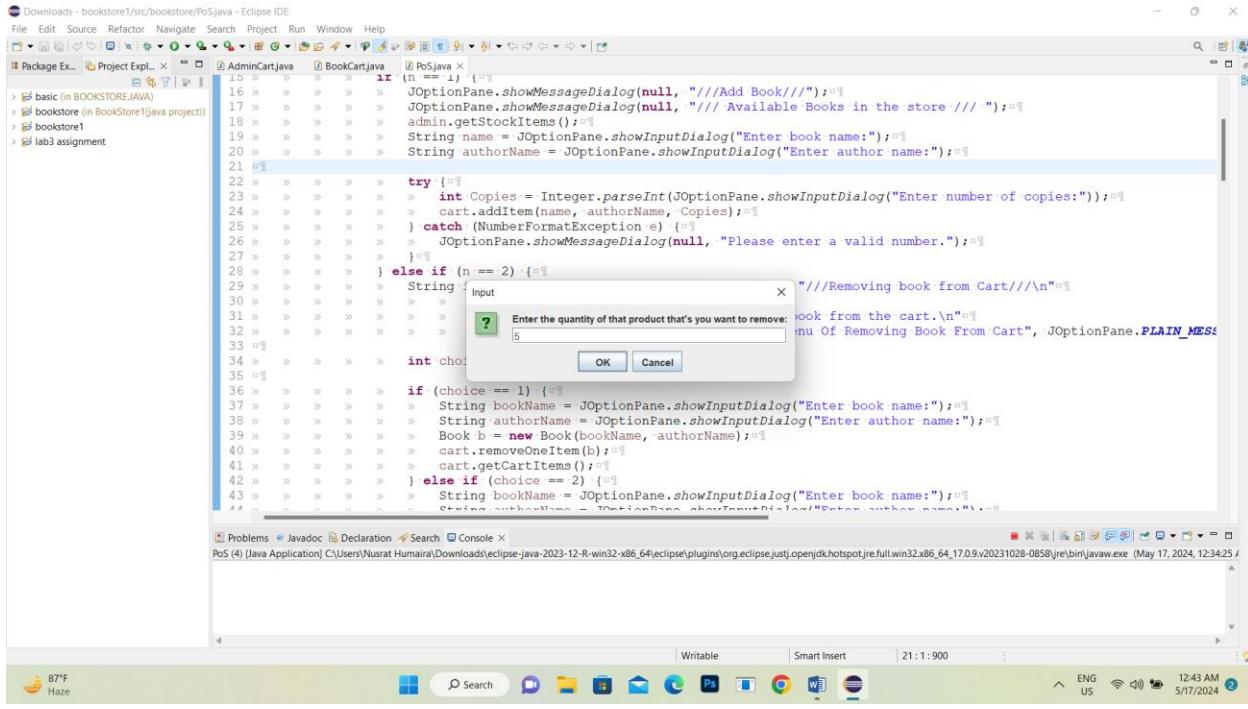


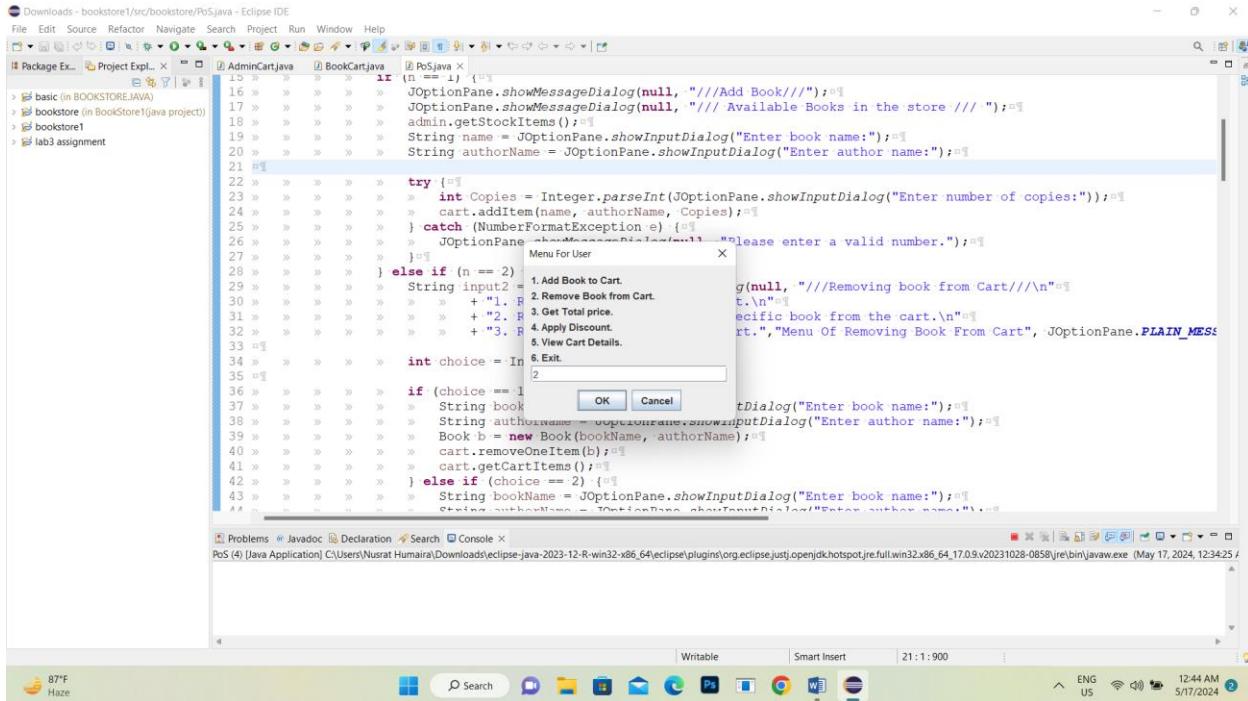
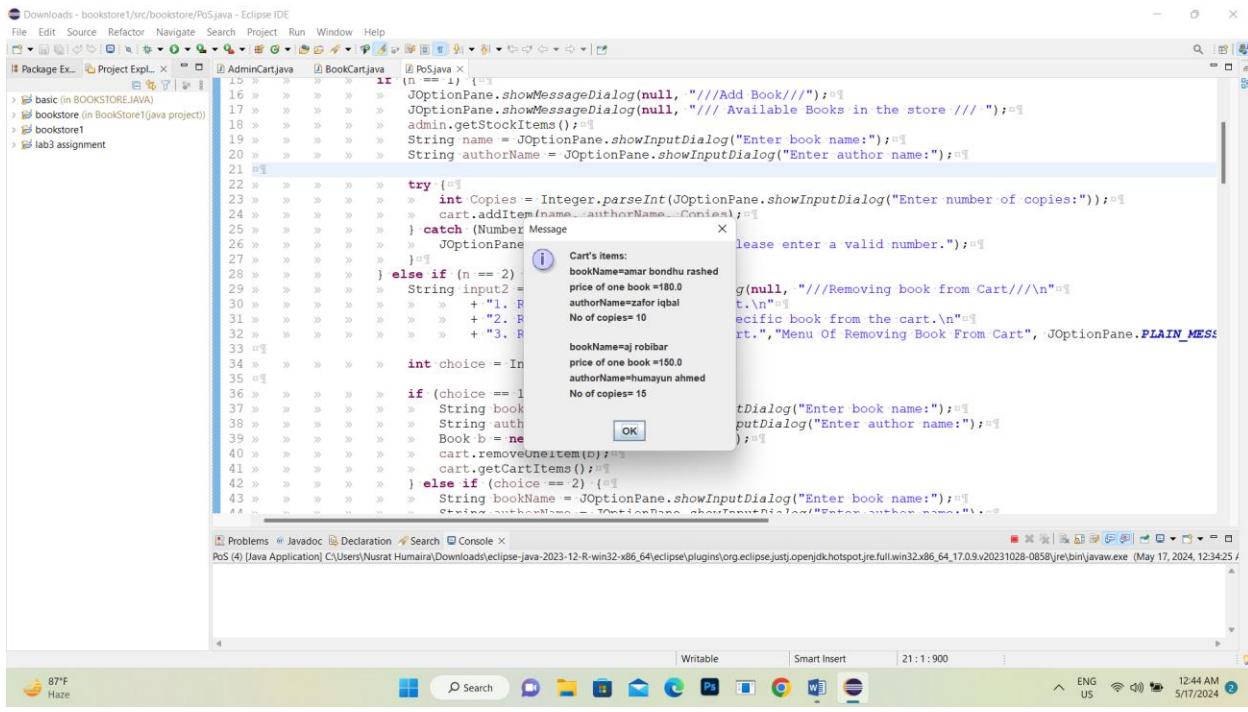


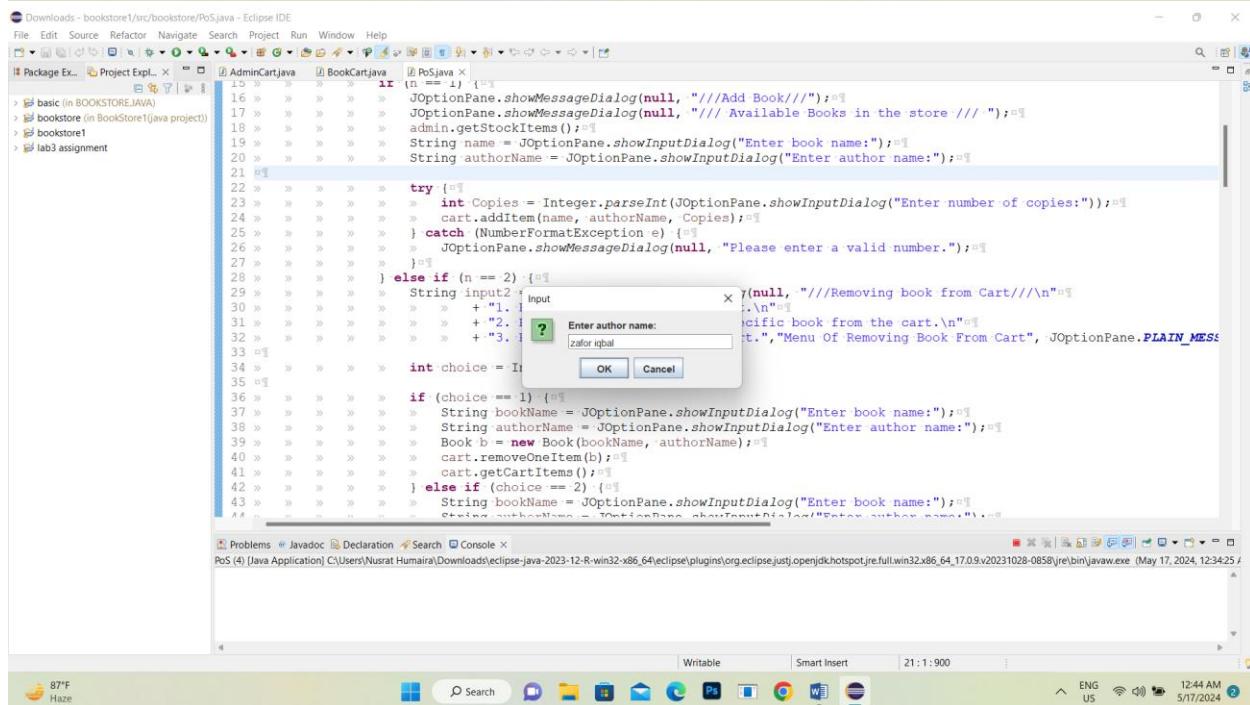
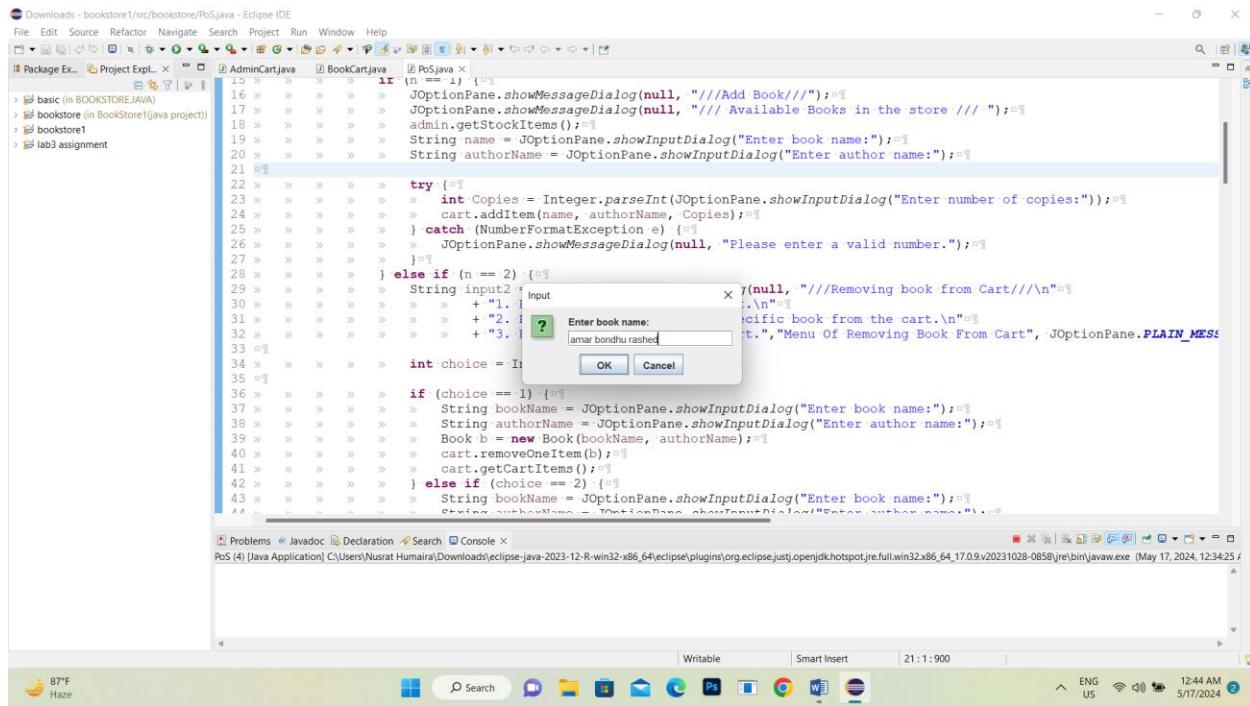


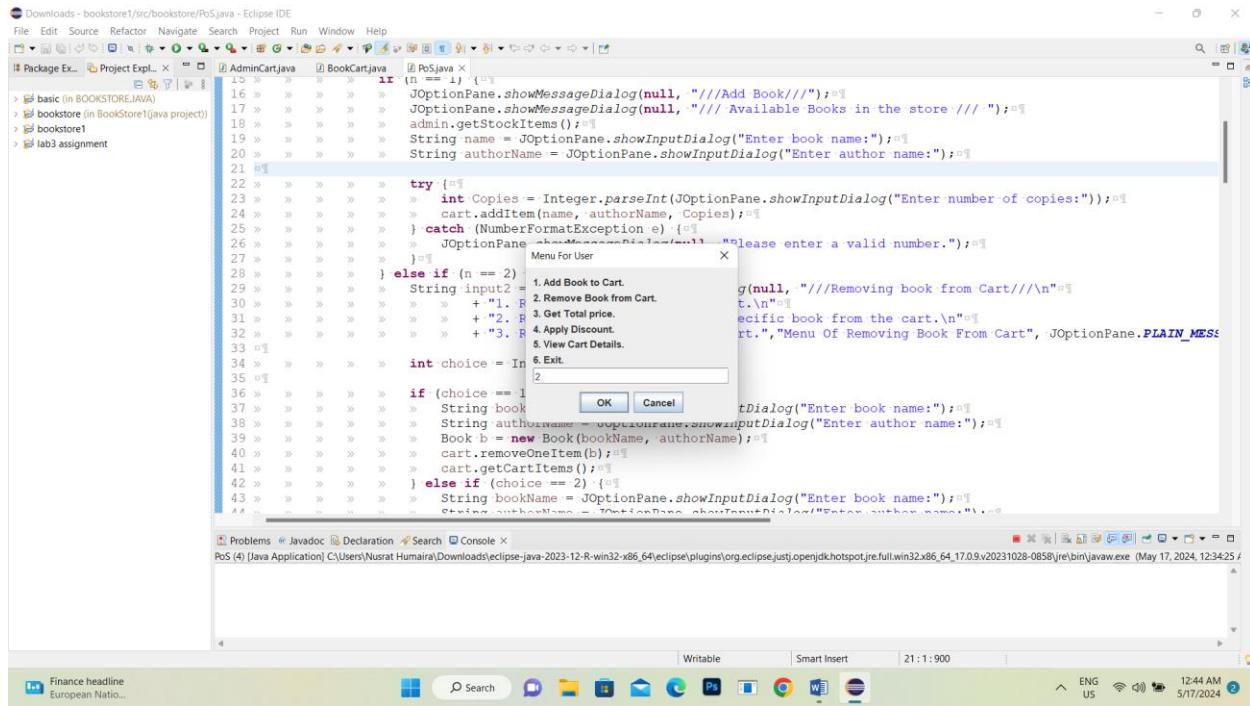
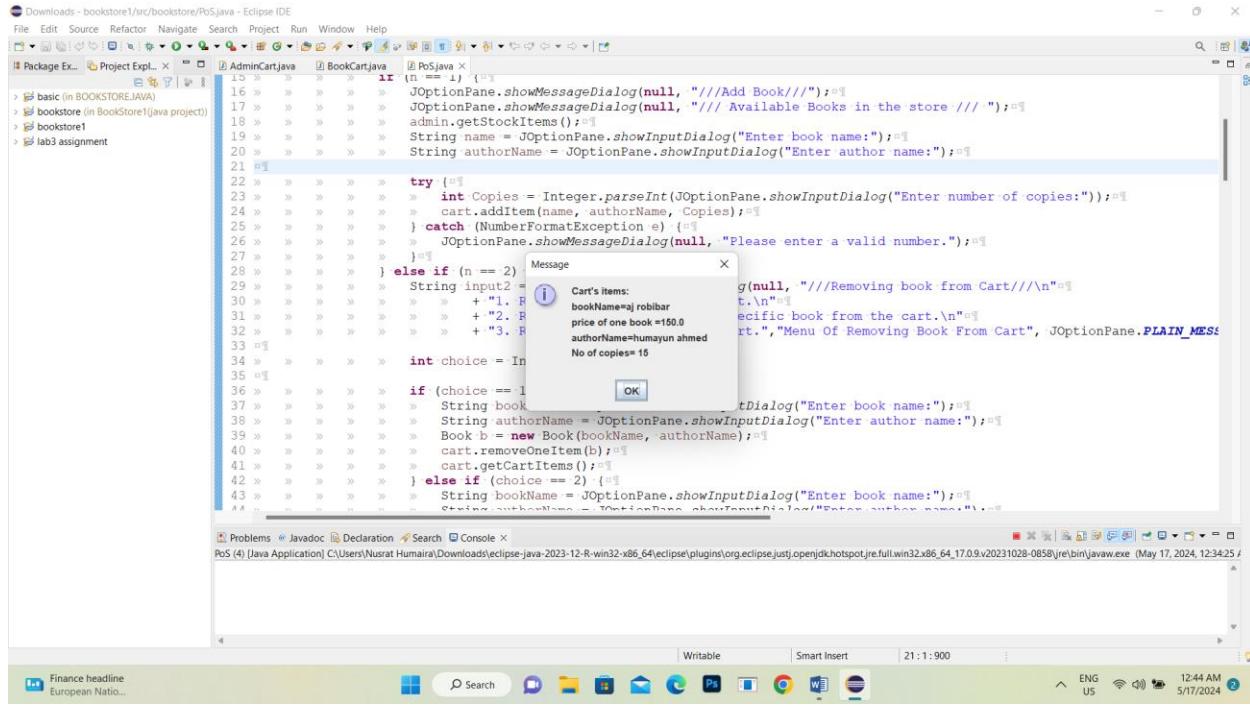












Screenshot of Eclipse IDE showing the BookCart.java code. A JOptionPane.showInputDialog("Enter book name:") dialog box is open, prompting the user to enter a book name.

```
15 >> >> >> 16 >> >> >> JOptionPanel.showMessageDialog(null, "///Add Book///"); // 17 >> >> >> JOptionPanel.showMessageDialog(null, "/// Available Books in the store /// "); // 18 >> >> >> admin.getStockItems(); // 19 >> >> >> String name = JOptionPanel.showInputDialog("Enter book name:"); // 20 >> >> >> String authorName = JOptionPanel.showInputDialog("Enter author name:"); // 21 <-- try { // 22 >> >> >> > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:")); // 23 >> >> >> > cart.addItem(name, authorName, Copies); // 24 >> >> >> } catch (NumberFormatException e) { // 25 >> >> >> > JOptionPane.showMessageDialog(null, "Please enter a valid number."); // 26 >> >> >> } // 27 >> >> >> if (n == 1) { // 28 >> >> >> > String input = //Removing book from Cart// // 1. Remove one book from the cart. // 2. Remove some copies of the specific book from the cart. // 3. Remove all books from the cart. // 29 >> >> >> > JOptionPane.showInputDialog(null, "1.\n2.\n3."); // 30 >> >> >> > choice = Integer.parseInt(input); // 31 >> >> >> > if (choice == 1) { // 32 >> >> >> > Book b = new Book(bookName, authorName); // 33 >> >> >> > cart.removeOneItem(b); // 34 >> >> >> > else if (choice == 2) { // 35 >> >> >> > String bookName = JOptionPane.showInputDialog("Enter book name:"); // 36 >> >> >> > String authorName = JOptionPane.showInputDialog("Enter author name:"); // 37 >> >> >> > Book b = new Book(bookName, authorName); // 38 >> >> >> > cart.removeOneItem(b); // 39 >> >> >> > else if (choice == 3) { // 40 >> >> >> > String bookName = JOptionPane.showInputDialog("Enter book name:"); // 41 >> >> >> > String authorName = JOptionPane.showInputDialog("Enter author name:");
```

Screenshot of Eclipse IDE showing the BookCart.java code. A JOptionPane.showInputDialog("Enter book name:") dialog box is open, prompting the user to enter a book name. The input field contains "aj robbins".

```
15 >> >> >> 16 >> >> >> JOptionPanel.showMessageDialog(null, "///Add Book///"); // 17 >> >> >> JOptionPanel.showMessageDialog(null, "/// Available Books in the store /// "); // 18 >> >> >> admin.getStockItems(); // 19 >> >> >> String name = JOptionPanel.showInputDialog("Enter book name:"); // 20 >> >> >> String authorName = JOptionPanel.showInputDialog("Enter author name:"); // 21 <-- try { // 22 >> >> >> > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:")); // 23 >> >> >> > cart.addItem(name, authorName, Copies); // 24 >> >> >> } catch (NumberFormatException e) { // 25 >> >> >> > JOptionPane.showMessageDialog(null, "Please enter a valid number."); // 26 >> >> >> } // 27 >> >> >> if (n == 2) { // 28 >> >> >> > String input = //Removing book from Cart// // 1. Remove one book from the cart. // 2. Remove some copies of the specific book from the cart. // 3. Remove all books from the cart. // 29 >> >> >> > JOptionPane.showInputDialog(null, "1.\n2.\n3."); // 30 >> >> >> > choice = Integer.parseInt(input); // 31 >> >> >> > if (choice == 1) { // 32 >> >> >> > Book b = new Book(bookName, authorName); // 33 >> >> >> > cart.removeOneItem(b); // 34 >> >> >> > else if (choice == 2) { // 35 >> >> >> > String bookName = JOptionPane.showInputDialog("Enter book name:"); // 36 >> >> >> > String authorName = JOptionPane.showInputDialog("Enter author name:"); // 37 >> >> >> > Book b = new Book(bookName, authorName); // 38 >> >> >> > cart.removeOneItem(b); // 39 >> >> >> > else if (choice == 3) { // 40 >> >> >> > String bookName = JOptionPane.showInputDialog("Enter book name:"); // 41 >> >> >> > String authorName = JOptionPane.showInputDialog("Enter author name:");
```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java AdminCart.java PoJava
15 > 16 > 17 > 18 > 19 > 20 > 21 >
22 > 23 > 24 > 25 > 26 > 27 > 28 > 29 > 30 > 31 > 32 > 33 >
34 > 35 > 36 > 37 > 38 > 39 > 40 > 41 > 42 > 43 >
String name = JOptionPane.showInputDialog("Enter book name:");
String authorName = JOptionPane.showInputDialog("Enter author name:");
try {
    int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies"));
    cart.addItem(name, authorName, Copies);
} catch (NumberFormatException e) {
    JOptionPane.showMessageDialog(null, "Please enter a valid number.");
}
else if (n == 2) {
    String input2 = JOptionPane.showInputDialog("Enter author name:");
    if (input2.equals("1")) {
        JOptionPane.showMessageDialog(null, "///Removing book from Cart///\n");
        specificBookFromTheCart();
    } else if (input2.equals("2")) {
        JOptionPane.showMessageDialog(null, "///Removing book from Cart///\n");
        menuOfRemovingBookFromCart();
    } else if (input2.equals("3")) {
        JOptionPane.showMessageDialog(null, "///Removing book from Cart///\n");
        menuOfRemovingBookFromCart();
    }
}
int choice = Integer.parseInt(input);
if (choice == 1) {
    String bookName = JOptionPane.showInputDialog("Enter book name:");
    String authorName = JOptionPane.showInputDialog("Enter author name:");
    Book b = new Book(bookName, authorName);
    cart.removeOneItem(b);
} else if (choice == 2) {
    String bookName = JOptionPane.showInputDialog("Enter book name:");
    String authorName = JOptionPane.showInputDialog("Enter author name:");
    Book b = new Book(bookName, authorName);
    cart.getCartItems();
} else if (choice == 3) {
    String bookName = JOptionPane.showInputDialog("Enter book name:");
    String authorName = JOptionPane.showInputDialog("Enter author name:");
    Book b = new Book(bookName, authorName);
    cart.removeOneItem(b);
}
cart.getCartItems();
```

Enter author name:  
humayun ahmed

OK Cancel

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java AdminCart.java PoJava
15 > 16 > 17 > 18 > 19 > 20 > 21 >
22 > 23 > 24 > 25 > 26 > 27 > 28 > 29 > 30 > 31 > 32 > 33 >
34 > 35 > 36 > 37 > 38 > 39 > 40 > 41 > 42 > 43 >
String name = JOptionPane.showInputDialog("Enter book name:");
String authorName = JOptionPane.showInputDialog("Enter author name:");
try {
    int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies"));
    cart.addItem(name, authorName, Copies);
} catch (NumberFormatException e) {
    JOptionPane.showMessageDialog(null, "Please enter a valid number.");
}
else if (n == 2) {
    String input = JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:");
    if (input.equals("100")) {
        JOptionPane.showMessageDialog(null, "///Removing book from Cart///\n");
        menuOfRemovingBookFromCart();
    }
}
int choice = Integer.parseInt(input);
if (choice == 1) {
    String bookName = JOptionPane.showInputDialog("Enter book name:");
    String authorName = JOptionPane.showInputDialog("Enter author name:");
    Book b = new Book(bookName, authorName);
    cart.removeOneItem(b);
} else if (choice == 2) {
    String bookName = JOptionPane.showInputDialog("Enter book name:");
    String authorName = JOptionPane.showInputDialog("Enter author name:");
    Book b = new Book(bookName, authorName);
    cart.getCartItems();
} else if (choice == 3) {
    String bookName = JOptionPane.showInputDialog("Enter book name:");
    String authorName = JOptionPane.showInputDialog("Enter author name:");
    Book b = new Book(bookName, authorName);
    cart.removeOneItem(b);
}
cart.getCartItems();
```

Enter the quantity of that product that's you want to remove:  
100

OK Cancel

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer View Properties Run Tools Window Help
AdminCartJava BookCart.java PoJava
15 > > > > > > > n == 1 { ...
16 > > > > > > > JOptionPane.showMessageDialog(null, "///Add Book///"); ...
17 > > > > > > > JOptionPane.showMessageDialog(null, "/// Available Books in the store /// "); ...
18 > > > > > > > admin.getStockItems(); ...
19 > > > > > > > String name = JOptionPane.showInputDialog("Enter book name:"); ...
20 > > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:"); ...
21 > ...
22 > > > > > > > try { ...
23 > > > > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:")); ...
24 > > > > > > > > cart.addItem(name, authorName, Copies); ...
25 > > > > > > > } catch (NumberFormatException e) { ...
26 > > > > > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number."); ...
27 > > > > > } ...
28 > > > > > > > } else if (n == 2) { ...
29 > > > > > > > ...
30 > > > > > ...
31 > > > > > ...
32 > > > > > ...
33 ...
34 ...
35 ...
36 > > > > > > > if (choice == 1) { ...
37 > > > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:"); ...
38 > > > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:"); ...
39 > > > > > > > > Book b = new Book(bookName, authorName); ...
40 > > > > > > > > cart.removeOneItem(b); ...
41 > > > > > > > > cart.getCartItems(); ...
42 > > > > > > ...
43 > > > > > > > > } else if (choice == 2) { ...
44 > > > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:"); ...
45 > > > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:"); ...

```

Message

i Can't remove 100 as Only copies: 15 of book name: aj robibar ,author name: humayun ahmed is available in the customer cart **From Cart**, JOptionPane.PLAIN\_MESSAGE

OK

Problems Javadoc Declaration Search Console

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdkhotspot\jre\full\win32\x86\_64\17.0.9\v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25 /

Finance headline European Nation... Writable Smart Insert 21:1:900 ENG US 12:45 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer View Properties Run Tools Window Help
AdminCartJava BookCart.java PoJava
15 > > > > > > > n == 1 { ...
16 > > > > > > > JOptionPane.showMessageDialog(null, "///Add Book///"); ...
17 > > > > > > > JOptionPane.showMessageDialog(null, "/// Available Books in the store /// "); ...
18 > > > > > > > admin.getStockItems(); ...
19 > > > > > > > String name = JOptionPane.showInputDialog("Enter book name:"); ...
20 > > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:"); ...
21 > ...
22 > > > > > > > try { ...
23 > > > > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:")); ...
24 > > > > > > > > cart.addItem(name, authorName, Copies); ...
25 > > > > > > > } catch (NumberFormatException e) { ...
26 > > > > > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number."); ...
27 > > > > > } ...
28 > > > > > > > } else if (n == 2) { ...
29 > > > > > > > ...
30 > > > > > > ...
31 > > > > > > ...
32 > > > > > > ...
33 ...
34 ...
35 ...
36 > > > > > > > if (choice == 1) { ...
37 > > > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:"); ...
38 > > > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:"); ...
39 > > > > > > > > Book b = new Book(bookName, authorName); ...
40 > > > > > > > > cart.removeOneItem(b); ...
41 > > > > > > > > cart.getCartItems(); ...
42 > > > > > > ...
43 > > > > > > > > } else if (choice == 2) { ...
44 > > > > > > > > String bookName = JOptionPane.showInputDialog("Enter book name:"); ...
45 > > > > > > > > String authorName = JOptionPane.showInputDialog("Enter author name:"); ...

```

Message

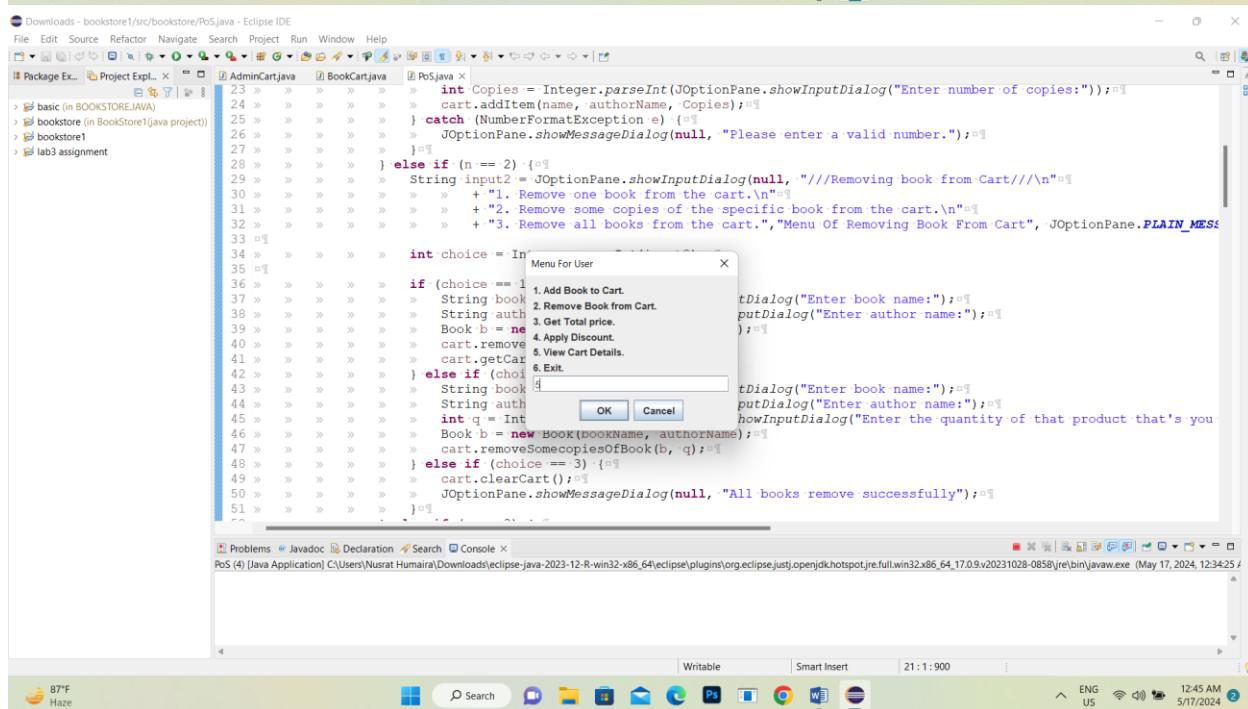
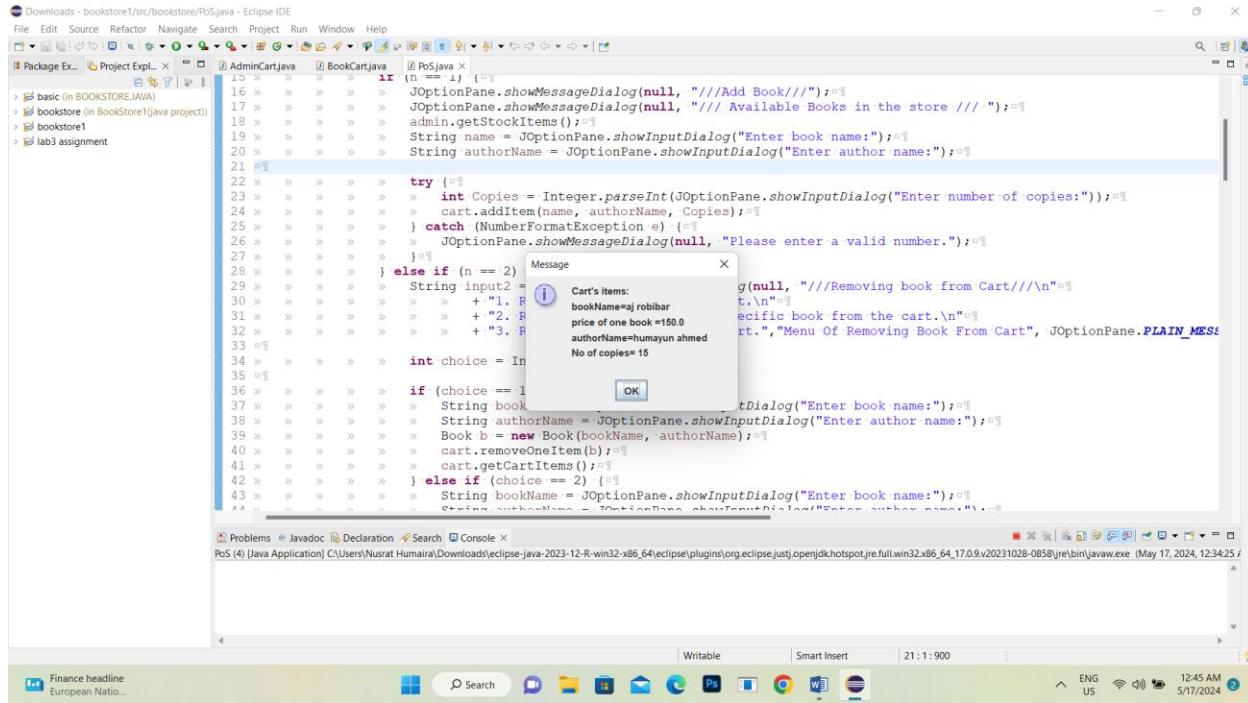
i g(null, "///Removing book from Cart///\n" + "1. R Message t.\n" + "2. R Update info of customer cart: specific book from the cart.\n" + "3. R rt.", "Menu Of Removing Book From Cart", JOptionPane.PLAIN\_MESSAGE

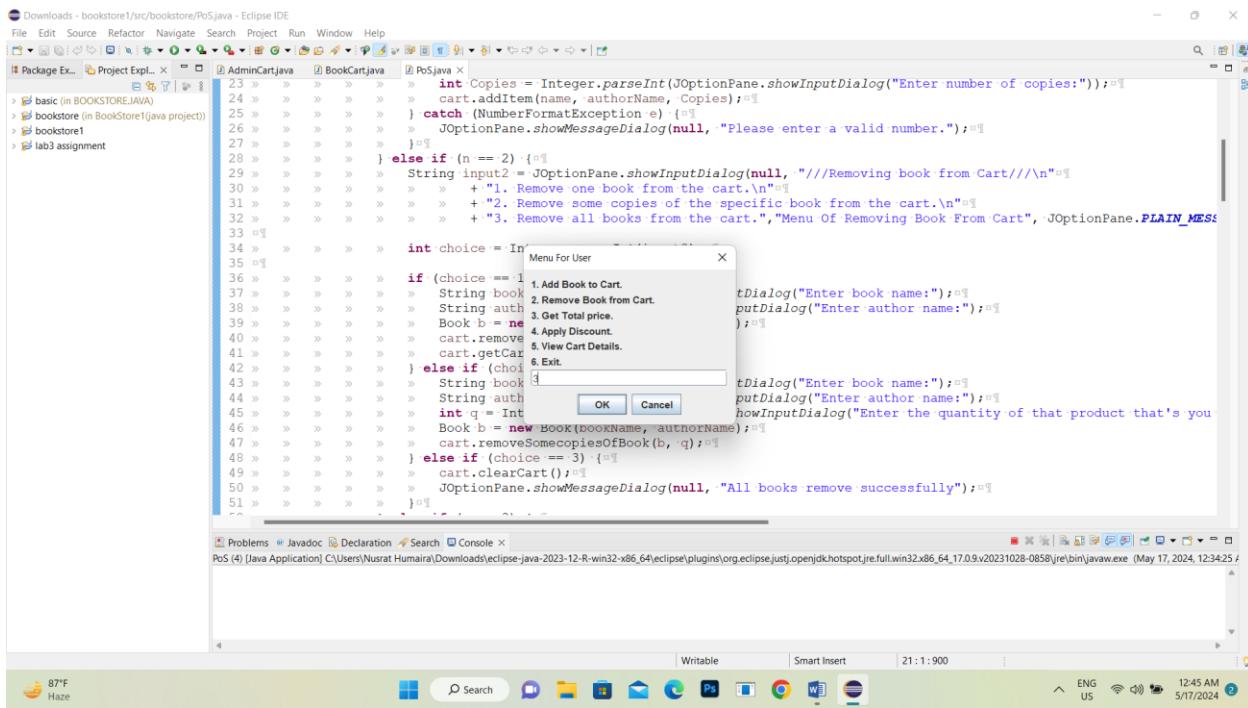
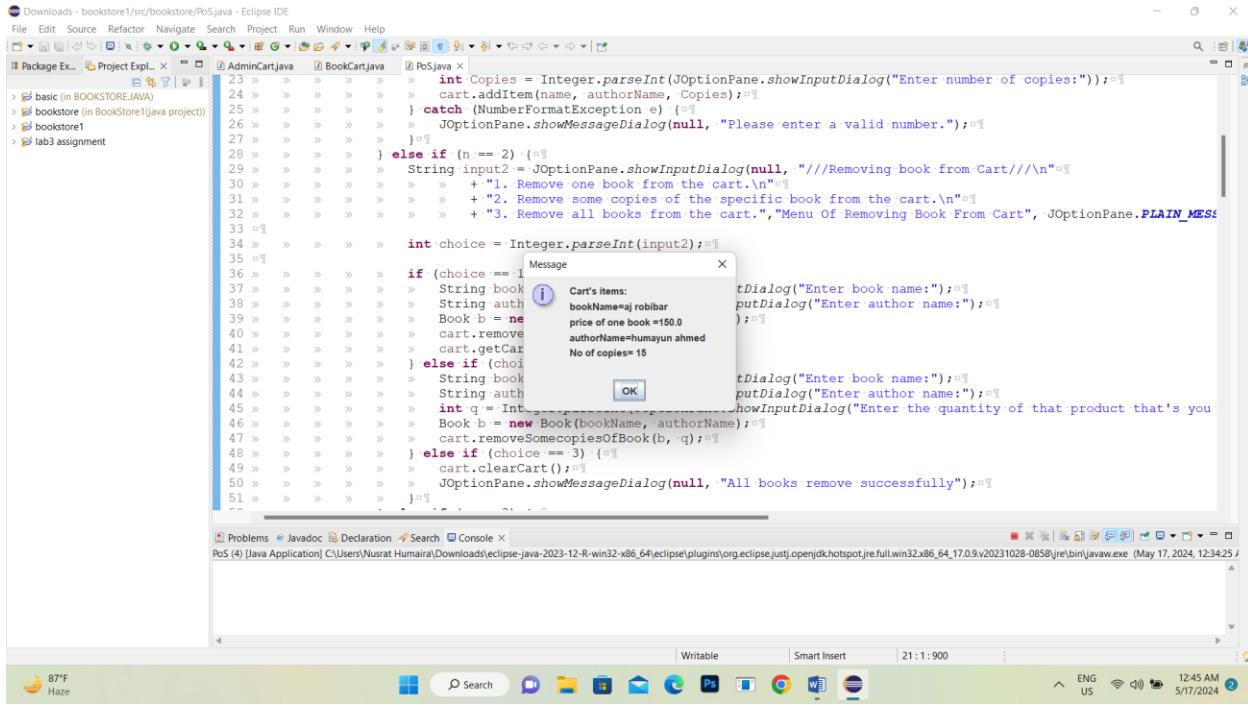
OK

Problems Javadoc Declaration Search Console

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdkhotspot\jre\full\win32\x86\_64\17.0.9\v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25 /

Finance headline European Nation... Writable Smart Insert 21:1:900 ENG US 12:45 AM 5/17/2024





```
23 >>> >>> >> int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));<%
24 >>> >>> >> cart.addItem(name, authorName, Copies);<%
25 >>> >>> } catch (NumberFormatException e) {<%
26 >>> >>> JOptionPane.showMessageDialog(null, "Please enter a valid number.");<%
27 >>> }<%
28 >>> } else if (n == 2) {<%
29 >>> >>> String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n" +<%
30 >>> >>> >> + "1. Remove one book from the cart.\n" +<%
31 >>> >>> >> + "2. Remove some copies of the specific book from the cart.\n" +<%
32 >>> >>> >> + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);<%
33 >>> >>> int choice = Integer.parseInt(input2);<%
34 >>> >>> >> if (choice == 1) {<%
35 >>> >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");<%
36 >>> >>> >>> >> String authName = JOptionPane.showInputDialog("Enter author name:");<%
37 >>> >>> >>> >> Book b = new Book(bookName, authName);<%
38 >>> >>> >>> >> cart.remove(b);<%
39 >>> >>> >>> >> Book b = new Book(bookName, authName);<%
40 >>> >>> >>> >> cart.getCart();<%
41 >>> >>> } else if (choice == 2) {<%
42 >>> >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");<%
43 >>> >>> >>> >> String authName = JOptionPane.showInputDialog("Enter author name:");<%
44 >>> >>> >>> >> int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));<%
45 >>> >>> >>> >> Book b = new Book(bookName, authName);<%
46 >>> >>> >>> >> cart.removeSomeCopiesOfBook(b, q);<%
47 >>> >>> } else if (choice == 3) {<%
48 >>> >>> >>> >> cart.clearCart();<%
49 >>> >>> }<%
50 >>> >>> >> JOptionPane.showMessageDialog(null, "All books remove successfully");<%
51 >>> }<%
```

```
23 >>> >>> >> int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));<%
24 >>> >>> >> cart.addItem(name, authorName, Copies);<%
25 >>> >>> } catch (NumberFormatException e) {<%
26 >>> >>> JOptionPane.showMessageDialog(null, "Please enter a valid number.");<%
27 >>> }<%
28 >>> } else if (n == 2) {<%
29 >>> >>> String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n" +<%
30 >>> >>> >> + "1. Remove one book from the cart.\n" +<%
31 >>> >>> >> + "2. Remove some copies of the specific book from the cart.\n" +<%
32 >>> >>> >> + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);<%
33 >>> >>> int choice = Integer.parseInt(input2);<%
34 >>> >>> >> if (choice == 1) {<%
35 >>> >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");<%
36 >>> >>> >>> >> String authName = JOptionPane.showInputDialog("Enter author name:");<%
37 >>> >>> >>> >> Book b = new Book(bookName, authName);<%
38 >>> >>> >>> >> cart.remove(b);<%
39 >>> >>> >>> >> Book b = new Book(bookName, authName);<%
40 >>> >>> >>> >> cart.getCart();<%
41 >>> >>> } else if (choice == 2) {<%
42 >>> >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");<%
43 >>> >>> >>> >> String authName = JOptionPane.showInputDialog("Enter author name:");<%
44 >>> >>> >>> >> int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));<%
45 >>> >>> >>> >> Book b = new Book(bookName, authName);<%
46 >>> >>> >>> >> cart.removeSomeCopiesOfBook(b, q);<%
47 >>> >>> } else if (choice == 3) {<%
48 >>> >>> >>> >> cart.clearCart();<%
49 >>> >>> }<%
50 >>> >>> >> JOptionPane.showMessageDialog(null, "All books remove successfully");<%
51 >>> }<%
```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java PoS.java
23 > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 > > > > > cart.addItem(name, authorName, Copies);
25 > > > > } catch (NumberFormatException e) {
26 > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 > > > }
28 > > > } else if (n == 2) {
29 > > > > String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n");
30 > > > > > + "1. Remove one book from the cart.\n";
31 > > > > > + "2. Remove some copies of the specific book from the cart.\n";
32 > > > > > + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
33 > > >
34 > > > int choice = Integer.parseInt(input2);
35 > > > if (choice == 1) {
36 > > > > String book = JOptionPane.showInputDialog("Enter book name:");
37 > > > > String auth = JOptionPane.showInputDialog("Enter author name:");
38 > > > > Book b = new Book(bookName, authorName);
39 > > > > int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
40 > > > > Book b = new Book(bookName, authorName);
41 > > > > cart.removeSomeCopiesOfBook(b, q);
42 > > > } else if (choice == 2) {
43 > > > > String book = JOptionPane.showInputDialog("Enter book name:");
44 > > > > String auth = JOptionPane.showInputDialog("Enter author name:");
45 > > > > int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
46 > > > > Book b = new Book(bookName, authorName);
47 > > > > cart.removeSomeCopiesOfBook(b, q);
48 > > > } else if (choice == 3) {
49 > > > > cart.clearCart();
50 > > > > JOptionPane.showMessageDialog(null, "All books remove successfully");
51 > > >
```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java PoS.java
23 > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 > > > > > cart.addItem(name, authorName, Copies);
25 > > > > } catch (NumberFormatException e) {
26 > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 > > > }
28 > > > } else if (n == 2) {
29 > > > > String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n");
30 > > > > > + "1. Remove one book from the cart.\n";
31 > > > > > + "2. Remove some copies of the specific book from the cart.\n";
32 > > > > > + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
33 > > >
34 > > > int choice = Integer.parseInt(input2);
35 > > > if (choice == 1) {
36 > > > > String book = JOptionPane.showInputDialog("Enter book name:");
37 > > > > String auth = JOptionPane.showInputDialog("Enter author name:");
38 > > > > Book b = new Book(bookName, authorName);
39 > > > > int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
40 > > > > Book b = new Book(bookName, authorName);
41 > > > > cart.removeSomeCopiesOfBook(b, q);
42 > > > } else if (choice == 2) {
43 > > > > String book = JOptionPane.showInputDialog("Enter book name:");
44 > > > > String auth = JOptionPane.showInputDialog("Enter author name:");
45 > > > > int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
46 > > > > Book b = new Book(bookName, authorName);
47 > > > > cart.removeSomeCopiesOfBook(b, q);
48 > > > } else if (choice == 3) {
49 > > > > cart.clearCart();
50 > > > > JOptionPane.showMessageDialog(null, "All books remove successfully");
51 > > >
```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java PoS.java
23 > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 > > > > > cart.addItem(name, authorName, Copies);
25 > > > > } catch (NumberFormatException e) {
26 > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 > > > }
28 > > > } else if (n == 2) {
29 > > > > String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n" +
30 > > > > + "1. Remove one book from the cart.\n" +
31 > > > > + "2. Remove some copies of the specific book from the cart.\n" +
32 > > > > + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
33 > > >
34 > > > int choice = Integer.parseInt(input2);
35 > > >
36 > > > if (choice == 1) {
37 > > > > String bookName = JOptionPane.showInputDialog("Enter book name:");
38 > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");
39 > > > > Book b = new Book(bookName, authorName);
40 > > > > cart.remove(b);
41 > > > > cart.getCart();
42 > > > } else if (choice == 2) {
43 > > > > String bookName = JOptionPane.showInputDialog("Enter book name:");
44 > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");
45 > > > > int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
46 > > > > Book b = new Book(bookName, authorName);
47 > > > > cart.removeSomecopiesOfBook(b, q);
48 > > > } else if (choice == 3) {
49 > > > > cart.clearCart();
50 > > > > JOptionPane.showMessageDialog(null, "All books remove successfully");
51 > > >

```

Problems Javadoc Declaration Search Console

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25)

Writable Smart Insert 21:1:900

87°F Haze 12:46 AM 5/17/2024 ENG US

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java PoS.java
23 > > > > > int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 > > > > > cart.addItem(name, authorName, Copies);
25 > > > > } catch (NumberFormatException e) {
26 > > > > JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 > > > }
28 > > > } else if (n == 2) {
29 > > > > String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n" +
30 > > > > + "1. Remove one book from the cart.\n" +
31 > > > > + "2. Remove some copies of the specific book from the cart.\n" +
32 > > > > + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
33 > > >
34 > > > int choice = Integer.parseInt(input2);
35 > > >
36 > > > if (choice == 1) {
37 > > > > St Message < Enter book name:> ("Enter author name:");
38 > > > > Bo i Your total price range is ($1500-$2000). So you got 10% discount.
40 > > > > ca
41 > > > } else {
42 > > > > St < Enter book name:> ("Enter author name:");
43 > > > > String authorName = JOptionPane.showInputDialog("Enter author name:");
44 > > > > int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
45 > > > > Book b = new Book(bookName, authorName);
46 > > > > cart.removeSomecopiesOfBook(b, q);
47 > > > } else if (choice == 3) {
48 > > > > cart.clearCart();
49 > > > > JOptionPane.showMessageDialog(null, "All books remove successfully");
50 > > >

```

Problems Javadoc Declaration Search Console

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25)

Writable Smart Insert 21:1:900

87°F Haze 12:46 AM 5/17/2024 ENG US

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java PoS.java
> book basic (in BOOKSTOREJAVA)
> bookstore (in BookStore1 java project)
> lab3 assignment
23 >>> >>> >> int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 >>> >>> >> cart.addItem(name, authorName, Copies);
25 >>> >>> } catch (NumberFormatException e) {
26 >>> >>> JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 >>> >>> }
28 >>> >>> } else if (n == 2) {
29 >>> >>> String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n" +
30 >>> >>> >> + "1. Remove one book from the cart.\n" +
31 >>> >>> >> + "2. Remove some copies of the specific book from the cart.\n" +
32 >>> >>> >> + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
33 >>> >>> int choice = Integer.parseInt(input2);
34 >>> >>> if (choice == 1) {
35 >>> >>> >> String book = JOptionPane.showInputDialog("Enter book name:");
36 >>> >>> >> String auth = JOptionPane.showInputDialog("Enter author name:");
37 >>> >>> >> Book b = new Book(bookName, authorName);
38 >>> >>> >> cart.remove(b);
39 >>> >>> >> cart.getCart();
40 >>> >>> } else if (choice == 2) {
41 >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");
42 >>> >>> >> String authorName = JOptionPane.showInputDialog("Enter author name:");
43 >>> >>> >> int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
44 >>> >>> >> Book b = new Book(bookName, authorName);
45 >>> >>> >> cart.removeSomeCopiesOfBook(b, q);
46 >>> >>> } else if (choice == 3) {
47 >>> >>> >> cart.clearCart();
48 >>> >>> } JOptionPane.showMessageDialog(null, "All books remove successfully");
49 >>> >>>
50 >>> >>>
51 >>> >>>

```

Discount Price: 1912.5

OK

Problems Javadoc Declaration Search Console

Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25)

Writable Smart Insert 21:1:900

87°F Haze ENG US 12:46 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Package Explorer BookCart.java PoS.java
> book basic (in BOOKSTOREJAVA)
> bookstore (in BookStore1 java project)
> lab3 assignment
23 >>> >>> >> int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 >>> >>> >> cart.addItem(name, authorName, Copies);
25 >>> >>> } catch (NumberFormatException e) {
26 >>> >>> JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 >>> >>> }
28 >>> >>> } else if (n == 2) {
29 >>> >>> String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n" +
30 >>> >>> >> + "1. Remove one book from the cart.\n" +
31 >>> >>> >> + "2. Remove some copies of the specific book from the cart.\n" +
32 >>> >>> >> + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
33 >>> >>> int choice = Integer.parseInt(input2);
34 >>> >>> if (choice == 1) {
35 >>> >>> >> String book = JOptionPane.showInputDialog("Enter book name:");
36 >>> >>> >> String auth = JOptionPane.showInputDialog("Enter author name:");
37 >>> >>> >> Book b = new Book(bookName, authorName);
38 >>> >>> >> cart.remove(b);
39 >>> >>> >> cart.getCart();
40 >>> >>> } else if (choice == 2) {
41 >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");
42 >>> >>> >> String authorName = JOptionPane.showInputDialog("Enter author name:");
43 >>> >>> >> int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
44 >>> >>> >> Book b = new Book(bookName, authorName);
45 >>> >>> >> cart.removeSomeCopiesOfBook(b, q);
46 >>> >>> } else if (choice == 3) {
47 >>> >>> >> cart.clearCart();
48 >>> >>> } JOptionPane.showMessageDialog(null, "All books remove successfully");
49 >>> >>>
50 >>> >>>
51 >>> >>>

```

Menu For User

- 1. Add Book to Cart.
- 2. Remove Book from Cart.
- 3. Get Total price.
- 4. Apply Discount.
- 5. View Cart Details.
- 6. Exit.

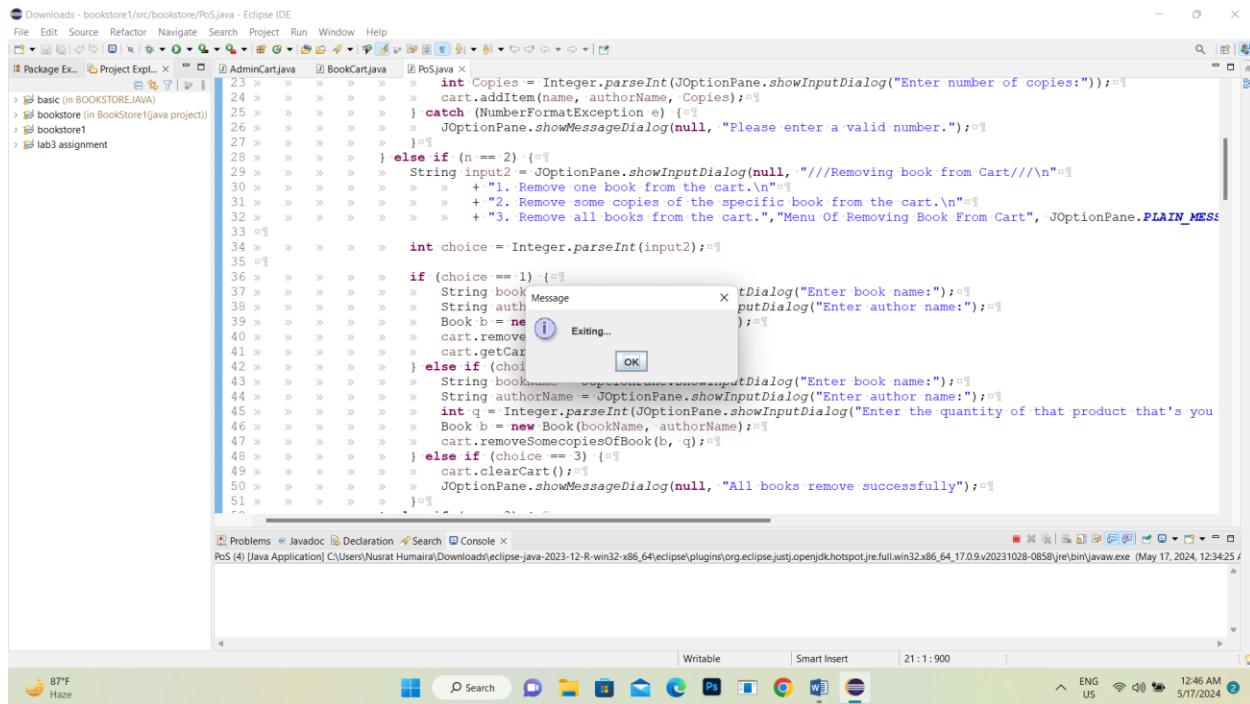
OK Cancel

Problems Javadoc Declaration Search Console

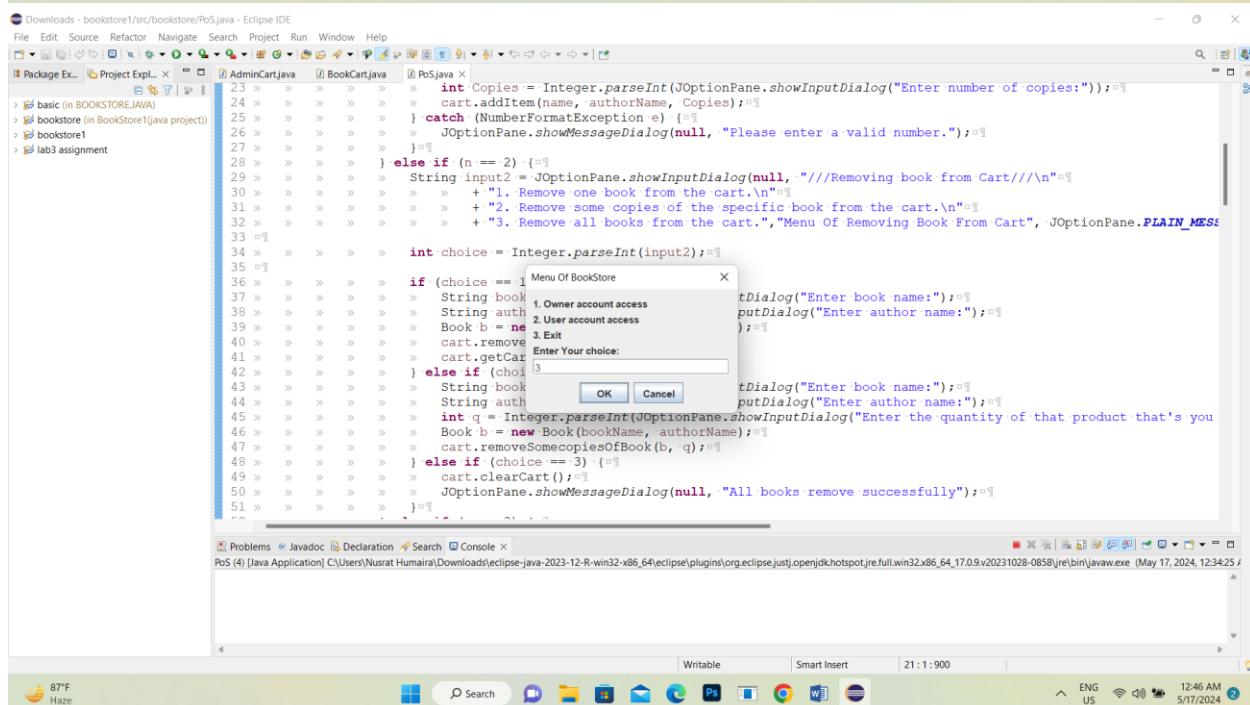
Pos (4) [Java Application] C:\Users\Nusrat Humaira\Downloads\eclipse-java-2023-12-R-win32-x86\_64\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86\_64\_17.0.9.v20231028-0858\jre\bin\javaw.exe (May 17, 2024, 12:34:25)

Writable Smart Insert 21:1:900

87°F Haze ENG US 12:46 AM 5/17/2024



```
23 >>>     int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));  
24 >>>     cart.AddItem(name, authorName, Copies);  
25 >>> } catch (NumberFormatException e) {  
26 >>>     JOptionPane.showMessageDialog(null, "Please enter a valid number.");  
27 >>> }  
28 >>> } else if (n == 2) {  
29 >>>     String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n"  
30 >>>             + "1. Remove one book from the cart.\n"  
31 >>>             + "2. Remove some copies of the specific book from the cart.\n"  
32 >>>             + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);  
33 >>>     int choice = Integer.parseInt(input2);  
34 >>>     if (choice == 1) {  
35 >>>         String book...  
36 >>>         String auth...  
37 >>>         Book b = ne...  
38 >>>         cart.remove...  
39 >>>         cart.getCar...  
40 >>>     } else if (choi...  
41 >>>         String book...  
42 >>>         String auth...  
43 >>>         String authorName = JOptionPane.showInputDialog("Enter author name:");  
44 >>>         int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you...  
45 >>>         Book b = new Book(bookName, authorName);  
46 >>>         cart.removeSomecopiesOfBook(b, q);  
47 >>>     } else if (choice == 3) {  
48 >>>         cart.clearCart();  
49 >>>     }  
50 >>>     JOptionPane.showMessageDialog(null, "All books remove successfully");  
51 >>> }  
52 >>> }
```



```
23 >>>     int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));  
24 >>>     cart.AddItem(name, authorName, Copies);  
25 >>> } catch (NumberFormatException e) {  
26 >>>     JOptionPane.showMessageDialog(null, "Please enter a valid number.");  
27 >>> }  
28 >>> } else if (n == 2) {  
29 >>>     String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart//\n"  
30 >>>             + "1. Remove one book from the cart.\n"  
31 >>>             + "2. Remove some copies of the specific book from the cart.\n"  
32 >>>             + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);  
33 >>>     int choice = Integer.parseInt(input2);  
34 >>>     if (choice == 1) {  
35 >>>         String book...  
36 >>>         String auth...  
37 >>>         Book b = ne...  
38 >>>         cart.remove...  
39 >>>         cart.getCar...  
40 >>>     } else if (choi...  
41 >>>         String book...  
42 >>>         String auth...  
43 >>>         String authorName = JOptionPane.showInputDialog("Enter author name:");  
44 >>>         int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you...  
45 >>>         Book b = new Book(bookName, authorName);  
46 >>>         cart.removeSomecopiesOfBook(b, q);  
47 >>>     } else if (choice == 3) {  
48 >>>         cart.clearCart();  
49 >>>     }  
50 >>>     JOptionPane.showMessageDialog(null, "All books remove successfully");  
51 >>> }  
52 >>> }
```

Screenshot of Eclipse IDE showing a Java application named PoS. The code in PoS.java handles user input for removing books from a cart. A tooltip 'Exiting...' is visible near the cursor.

```

23 >>> >>> >> int Copies = Integer.parseInt(JOptionPane.showInputDialog("Enter number of copies:"));
24 >>> >>> >> cart.addItem(name, authorName, Copies);
25 >>> >>> } catch(NumberFormatException e) {
26 >>> >>> JOptionPane.showMessageDialog(null, "Please enter a valid number.");
27 >>> >> }
28 >>> >> } else if (n == 2) {
29 >>> >>> >> String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n" +
30 >>> >>> >> + "1. Remove one book from the cart.\n" +
31 >>> >>> >> + "2. Remove some copies of the specific book from the cart.\n" +
32 >>> >>> >> + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
33 >>> >> int choice = Integer.parseInt(input2);
34 >>> >> if (choice == 1) {
35 >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");
36 >>> >>> >> String authorName = JOptionPane.showInputDialog("Enter author name:");
37 >>> >>> >> Book b = new Book(bookName, authorName);
38 >>> >>> >> cart.remove(b);
39 >>> >>> } else if (choice == 2) {
40 >>> >>> >> String bookName = JOptionPane.showInputDialog("Enter book name:");
41 >>> >>> >> String authorName = JOptionPane.showInputDialog("Enter author name:");
42 >>> >>> >> Book b = new Book(bookName, authorName);
43 >>> >>> >> int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
44 >>> >>> >> Book b1 = new Book(bookName, authorName);
45 >>> >>> >> cart.removeSomeCopiesOfBook(b1, q);
46 >>> >>> } else if (choice == 3) {
47 >>> >>> >> cart.clearCart();
48 >>> >>> } JOptionPane.showMessageDialog(null, "All books remove successfully");
49 >>> >>
50 >>> >>
51 >>> >>

```

## Exception:

Screenshot of Eclipse IDE showing the same Java application PoS. A tooltip 'Menu Of BookStore' is visible over a menu item.

```

1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     public static void customerSystem() {
5         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
6         BookCart cart = new BookCart(0, null, 0.0, null, 0);
7         while(true) {
8             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book\n3. Exit");
9             try {
10                 n = Integer.parseInt(input4);
11                 if (n == 1) {
12                     JOptionPane.showInputDialog("Add Book///");
13                     JOptionPane.showInputDialog("Available Books in the store /// ");
14                     String bookName = JOptionPane.showInputDialog("Enter book name:");
15                     String authorName = JOptionPane.showInputDialog("Enter author name:");
16                     Book b = new Book(bookName, authorName);
17                     cart.addItem(bookName, authorName, 1);
18                     admin.addItem(bookName, authorName, 1);
19                     JOptionPane.showMessageDialog(null, "Book added successfully");
20                 } else if (n == 2) {
21                     String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart///\n" +
22                     + "1. Remove one book from the cart.\n" +
23                     + "2. Remove some copies of the specific book from the cart.\n" +
24                     + "3. Remove all books from the cart.", JOptionPane.PLAIN_MESSAGE);
25                     int choice = Integer.parseInt(input2);
26                     if (choice == 1) {
27                         String bookName = JOptionPane.showInputDialog("Enter book name:");
28                         String authorName = JOptionPane.showInputDialog("Enter author name:");
29                         Book b1 = new Book(bookName, authorName);
30                         cart.removeItem(b1);
31                         admin.removeItem(b1);
32                     } else if (choice == 2) {
33                         String bookName = JOptionPane.showInputDialog("Enter book name:");
34                         String authorName = JOptionPane.showInputDialog("Enter author name:");
35                         Book b2 = new Book(bookName, authorName);
36                         int q = Integer.parseInt(JOptionPane.showInputDialog("Enter the quantity of that product that's you want to remove:"));
37                         cart.removeSomeCopiesOfBook(b2, q);
38                         admin.removeSomeCopiesOfBook(b2, q);
39                     } else if (choice == 3) {
40                         cart.clearCart();
41                         admin.clearCart();
42                     }
43                     JOptionPane.showMessageDialog(null, "All books remove successfully");
44                 } } catch(NumberFormatException e) {
45                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
46                 }
47             } } catch(Exception e) {
48                 JOptionPane.showMessageDialog(null, "An error occurred: " + e.getMessage());
49             }
50         }
51     }
52 }

```

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava × AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid choice.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "/Add Book///");
18                 admin.getCartItems();
19                 String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
20                 String authorName = JOptionPane.showInputDialog(null, "Enter author name:");
21                 try {
22                     int choice = JOptionPane.showInputDialog(null, "1. Owner account access\n2. User account access\n3. Exit");
23                     if (choice == 1) {
24                         String input2 = JOptionPane.showInputDialog(null, "/Available Books in the store /// ");
25                         String[] books = input2.split("\\n");
26                         for (String book : books) {
27                             System.out.println(book);
28                         }
29                     } else if (choice == 2) {
30                         String input3 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n" +
31                                         "2. Remove some copies of the specific book from the cart.\n" +
32                                         "3. Remove all books from the cart.");
33                         String[] options = input3.split("\\n");
34                         for (String option : options) {
35                             System.out.println(option);
36                         }
37                         String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
38                         String authorName = JOptionPane.showInputDialog(null, "Enter author name:");
39                         Book b = new Book(bookName, authorName);
40                         cart.removeCartItem(b);
41                         cart.getCartItems();
42                     } else if (choice == 3) {
43                         String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
44                     }
45                 }
46             } else if (n == 2) {
47                 String input2 = JOptionPane.showInputDialog(null, "/Removing book from Cart");
48                 String[] books = input2.split("\\n");
49                 for (String book : books) {
50                     System.out.println(book);
51                 }
52             } else if (n == 3) {
53                 String input2 = JOptionPane.showInputDialog(null, "/Menu Of Removing Book From Cart");
54                 String[] books = input2.split("\\n");
55                 for (String book : books) {
56                     System.out.println(book);
57                 }
58             }
59         }
60     }
61 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:35 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava × AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "/Add Book///");
18                 admin.getCartItems();
19                 String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
20                 String authorName = JOptionPane.showInputDialog(null, "Enter author name:");
21                 Book b = new Book(bookName, authorName);
22                 cart.removeCartItem(b);
23                 cart.getCartItems();
24             } else if (n == 2) {
25                 String input2 = JOptionPane.showInputDialog(null, "/Removing book from Cart");
26                 String[] books = input2.split("\\n");
27                 for (String book : books) {
28                     System.out.println(book);
29                 }
30             } else if (n == 3) {
31                 String input2 = JOptionPane.showInputDialog(null, "/Menu Of Removing Book From Cart");
32                 String[] books = input2.split("\\n");
33                 for (String book : books) {
34                     System.out.println(book);
35                 }
36             }
37         }
38     }
39 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:35 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book\n3. Exit");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Available Books in the store ///");
18                 admin.getMessage();
19                 String bookName = JOptionPane.showInputDialog("Enter book name:");
20                 String authorName = JOptionPane.showInputDialog("Enter author name:");
21                 try {
22                     int choice = Integer.parseInt(bookName);
23                     Book b = new Book(bookName, authorName);
24                     cart.removeCartItem(b);
25                     cart.getCartItems();
26                 } catch (NumberFormatException e) {
27                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
28                 }
29             } else if (n == 2) {
30                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart\n+ *1. Remove one book from the cart.\n+ *2. Remove some copies of the specific book from the cart.\n+ *3. Remove all books from the cart.", "Menu Of Removing Book From Cart");
31                 int choice = Integer.parseInt(input2);
32                 if (choice == 1) {
33                     String bookName = JOptionPane.showInputDialog("Enter book name:");
34                     String authorName = JOptionPane.showInputDialog("Enter author name:");
35                     Book b = new Book(bookName, authorName);
36                     cart.removeCartItem(b);
37                     cart.getCartItems();
38                 } else if (choice == 2) {
39                     String bookName = JOptionPane.showInputDialog("Enter book name:");
40                     String authorName = JOptionPane.showInputDialog("Enter author name:");
41                     Book b = new Book(bookName, authorName);
42                     cart.removeCartItem(b);
43                     cart.getCartItems();
44                 }
45             }
46         }
47     }
48 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:35 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book\n3. Exit");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Available Books in the store ///");
18                 admin.getMessage();
19                 String bookName = JOptionPane.showInputDialog("Enter book name:");
20                 String authorName = JOptionPane.showInputDialog("Enter author name:");
21                 try {
22                     int choice = Integer.parseInt(bookName);
23                     Book b = new Book(bookName, authorName);
24                     cart.removeCartItem(b);
25                     cart.getCartItems();
26                 } catch (NumberFormatException e) {
27                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
28                 }
29             } else if (n == 2) {
30                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart\n+ *1. Remove one book from the cart.\n+ *2. Remove some copies of the specific book from the cart.\n+ *3. Remove all books from the cart.", "Menu Of Removing Book From Cart");
31                 int choice = Integer.parseInt(input2);
32                 if (choice == 1) {
33                     String bookName = JOptionPane.showInputDialog("Enter book name:");
34                     String authorName = JOptionPane.showInputDialog("Enter author name:");
35                     Book b = new Book(bookName, authorName);
36                     cart.removeCartItem(b);
37                     cart.getCartItems();
38                 } else if (choice == 2) {
39                     String bookName = JOptionPane.showInputDialog("Enter book name:");
40                     String authorName = JOptionPane.showInputDialog("Enter author name:");
41                     Book b = new Book(bookName, authorName);
42                     cart.removeCartItem(b);
43                     cart.getCartItems();
44                 }
45             }
46         }
47     }
48 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:35 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava × AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book From Cart.\n3. Exit");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Enter book name:");
18                 String bookName = JOptionPane.showInputDialog(null, "Enter author name:");
19                 Book b = new Book(bookName, authorName);
20                 cart.addBookItem(b);
21             } else if (n == 2) {
22                 String input2 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n" +
23                     "+ 2. Remove some copies of the specific book from the cart.\n" +
24                     "+ 3. Remove all books from the cart.", "Menu Of Removing Book From Cart");
25                 try {
26                     int choice = Integer.parseInt(input2);
27                     if (choice == 1) {
28                         String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
29                         String authorName = JOptionPane.showInputDialog(null, "Enter author name:");
30                         Book b = new Book(bookName, authorName);
31                         cart.removeOneItem(b);
32                     } else if (choice == 2) {
33                         String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
34                     }
35                 } catch (NumberFormatException e) {
36                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
37                 }
38             } else if (n == 3) {
39                 JOptionPane.showMessageDialog(null, "Exiting the system.");
40                 break;
41             }
42         }
43     }
44 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:36 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava × AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book From Cart.\n3. Exit");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showInputDialog(null, "Check Customer (New or Existing)");
18                 String message = JOptionPane.showInputDialog(null, "Enter book name:");
19                 String bookName = JOptionPane.showInputDialog(null, "Enter author name:");
20                 Book b = new Book(bookName, authorName);
21                 cart.addBookItem(b);
22             } else if (n == 2) {
23                 String input2 = JOptionPane.showInputDialog(null, "1. Remove one book from the cart.\n" +
24                     "+ 2. Remove some copies of the specific book from the cart.\n" +
25                     "+ 3. Remove all books from the cart.", "Menu Of Removing Book From Cart");
26                 try {
27                     int choice = Integer.parseInt(input2);
28                     if (choice == 1) {
29                         String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
30                         String authorName = JOptionPane.showInputDialog(null, "Enter author name:");
31                         Book b = new Book(bookName, authorName);
32                         cart.removeOneItem(b);
33                     } else if (choice == 2) {
34                         String bookName = JOptionPane.showInputDialog(null, "Enter book name:");
35                     }
36                 } catch (NumberFormatException e) {
37                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
38                 }
39             } else if (n == 3) {
40                 JOptionPane.showMessageDialog(null, "Exiting the system.");
41                 break;
42             }
43         }
44     }
45 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:36 AM 5/17/2024

Screenshot of Eclipse IDE showing two instances of a Java application running. The application is a POS system for a bookstore.

**Code Snippet:**

```

1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book\n3. Exit\n4. Show Books in the store");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Available Books in the store ///");
18                 admin;
19                 String bookName;
20                 String authorName;
21                 String[] items;
22                 try {
23                     int choice = Integer.parseInt(bookName);
24                     cart.removeCartItem();
25                 } catch (NumberFormatException e) {
26                     JOptionPane.showMessageDialog(null, "Enter book name:");
27                 }
28             } else if (n == 2) {
29                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart\n1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.\n3. Remove all books from the cart.");
30                 cart.getCartItems();
31                 cart.removeCartItem();
32             } else if (choice == 3) {
33                 String bookName = JOptionPane.showInputDialog("Enter book name:");
34             }
35         }
36     }
37     if (choice == 1) {
38         String bookName = JOptionPane.showInputDialog("Enter book name:");
39         String authorName = JOptionPane.showInputDialog("Enter author name:");
40         Book b = new Book(bookName, authorName);
41         cart.removeCartItem(b);
42     } else if (choice == 2) {
43         String bookName = JOptionPane.showInputDialog("Enter book name:");

```

**Java Application UI (Top Window):**

Java application window titled "Downloads - bookstore1/src/bookstore/PoS.java - Eclipse IDE". The code is identical to the snippet above. A modal dialog box titled "Enter customer id:" is open, with the input field containing "nabla". The dialog has "OK" and "Cancel" buttons.

**Java Application UI (Bottom Window):**

Java application window titled "Downloads - bookstore1/src/bookstore/PoS.java - Eclipse IDE". The code is identical to the snippet above. A modal dialog box titled "Enter customer name:" is open, with the input field containing "nabla". The dialog has "OK" and "Cancel" buttons.

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Task List
PoSJava AdminCart.java
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit.\n4. Register New Customer.\n5. Log Out.");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Available Books in the store /// ");
18                 String bookName = JOptionPane.showInputDialog("Enter book name:");
19                 String authorName = JOptionPane.showInputDialog("Enter author name:");
20                 if (bookName.equals("") || authorName.equals("")) {
21                     JOptionPane.showMessageDialog(null, "The customer isn't registered. Register now");
22                     continue;
23                 }
24                 try {
25                     Book b = new Book(bookName, authorName);
26                     cart.addBook(b);
27                     cart.getCartItems();
28                 } catch (NumberFormatException e) {
29                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
30                 }
31             } else if (n == 2) {
32                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart\n" +
33                     "+ *1. Remove one book from the cart.\n" +
34                     "+ *2. Remove some copies of the specific book from the cart.\n" +
35                     "+ *3. Remove all books from the cart.", "Menu Of Removing Book From Cart");
36                 int choice = Integer.parseInt(input2);
37                 if (choice == 1) {
38                     String bookName = JOptionPane.showInputDialog("Enter book name:");
39                     String authorName = JOptionPane.showInputDialog("Enter author name:");
40                     Book b = new Book(bookName, authorName);
41                     cart.removeCartItem(b);
42                 } else if (choice == 2) {
43                     String bookName = JOptionPane.showInputDialog("Enter book name:");
44                 }
45             }
46         }
47     }
48 }

```

Writable Smart Insert 1:1:0

Connect Mylyn Connect to your task and ALM tools or create a local task.

86°F Haze

ENG US 8:36 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer Task List
PoSJava AdminCart.java
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit.\n4. Register New Customer.\n5. Log Out.");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Available Books in the store /// ");
18                 String customerId = JOptionPane.showInputDialog("Enter customer id:");
19                 String bookName = JOptionPane.showInputDialog("Enter book name:");
20                 String authorName = JOptionPane.showInputDialog("Enter author name:");
21                 if (customerId.equals("") || bookName.equals("") || authorName.equals("")) {
22                     JOptionPane.showMessageDialog(null, "The customer isn't registered. Register now");
23                     continue;
24                 }
25                 try {
26                     Book b = new Book(bookName, authorName);
27                     cart.addBook(b);
28                     cart.getCartItems();
29                 } catch (NumberFormatException e) {
30                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
31                 }
32             } else if (n == 2) {
33                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart\n" +
34                     "+ *1. Remove one book from the cart.\n" +
35                     "+ *2. Remove some copies of the specific book from the cart.\n" +
36                     "+ *3. Remove all books from the cart.", "Menu Of Removing Book From Cart");
37                 int choice = Integer.parseInt(input2);
38                 if (choice == 1) {
39                     String bookName = JOptionPane.showInputDialog("Enter book name:");
40                     String authorName = JOptionPane.showInputDialog("Enter author name:");
41                     Book b = new Book(bookName, authorName);
42                     cart.removeCartItem(b);
43                 } else if (choice == 2) {
44                     String bookName = JOptionPane.showInputDialog("Enter book name:");
45                 }
46             }
47         }
48     }
49 }

```

Writable Smart Insert 1:1:0

Connect Mylyn Connect to your task and ALM tools or create a local task.

86°F Haze

ENG US 8:36 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit.\n4. Show Available Books in the store.");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Available Books in the store ///");
18                 admin;
19                 String bookName;
20                 String authorName;
21                 String[] items;
22                 try {
23                     int choice = JOptionPane.showInputDialog("Enter number of books to add:");
24                     int count = Integer.parseInt(choice);
25                     for (int i = 0; i < count; i++) {
26                         String bookName = JOptionPane.showInputDialog("Enter book name:");
27                         String authorName = JOptionPane.showInputDialog("Enter author name:");
28                         Book b = new Book(bookName, authorName);
29                         cart.removeCartItem(b);
30                         cart.getCartItems();
31                     }
32                 } catch (NumberFormatException e) {
33                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
34                 }
35             } else if (n == 2) {
36                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart\n1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.\n3. Remove all books from the cart.");
37                 int choice = Integer.parseInt(input2);
38                 if (choice == 1) {
39                     String bookName = JOptionPane.showInputDialog("Enter book name:");
40                     String authorName = JOptionPane.showInputDialog("Enter author name:");
41                     Book b = new Book(bookName, authorName);
42                     cart.removeCartItem(b);
43                 } else if (choice == 2) {
44                     String bookName = JOptionPane.showInputDialog("Enter book name:");
45                 }
46             }
47         }
48     }
49 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:36 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer Project Explorer

```
PoSJava AdminCart.java
```

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit.\n4. Show Available Books in the store.");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Available Books in the store ///");
18                 admin;
19                 String password;
20                 String[] items;
21                 try {
22                     int choice = JOptionPane.showInputDialog("Enter number of books to add:");
23                     int count = Integer.parseInt(choice);
24                     for (int i = 0; i < count; i++) {
25                         String password = JOptionPane.showInputDialog("Enter password:");
26                         String bookName;
27                         String authorName;
28                         Book b = new Book(bookName, authorName);
29                         cart.removeCartItem(b);
30                         cart.getCartItems();
31                     }
32                 } catch (NumberFormatException e) {
33                     JOptionPane.showMessageDialog(null, "Please enter a valid number.");
34                 }
35             } else if (n == 2) {
36                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart\n1. Remove one book from the cart.\n2. Remove some copies of the specific book from the cart.\n3. Remove all books from the cart.");
37                 int choice = Integer.parseInt(input2);
38                 if (choice == 1) {
39                     String bookName = JOptionPane.showInputDialog("Enter book name:");
40                     String authorName = JOptionPane.showInputDialog("Enter author name:");
41                     Book b = new Book(bookName, authorName);
42                     cart.removeCartItem(b);
43                 } else if (choice == 2) {
44                     String bookName = JOptionPane.showInputDialog("Enter book name:");
45                 }
46             }
47         }
48     }
49 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Writable Smart Insert 1:1:0

ENG US 8:36 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer Project Explorer

PoSJava AdminCart.java

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit.\n4. Show Books in the store.\n5. Show Book Details.\n6. Remove some copies of the specific book from the cart.\n7. Remove all books from the cart.");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Add Book///");
18                 String input1 = JOptionPane.showInputDialog(null, "Enter book name:");
19                 String input2 = JOptionPane.showInputDialog(null, "Enter author name:");
20                 String input3 = JOptionPane.showInputDialog(null, "Enter number of books:");
21                 try {
22                     int in = Integer.parseInt(input3);
23                     cart.addBook(cart.getCartItems(), bookName, authorName, in);
24                 } catch (NumberFormatException e) {
25                     JOptionPane.showMessageDialog(null, "Please enter a valid number of books.");
26                 }
27             } else if (n == 2) {
28                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart");
29                 String input3 = JOptionPane.showInputDialog(null, "+ 1. Remove one book from the cart.\n" +
30                         "+ 2. Remove some copies of the specific book from the cart.\n" +
31                         "+ 3. Remove all books from the cart.");
32                 cart.removeBookFromCart();
33             } else if (n == 3) {
34                 int choice = Integer.parseInt(input4);
35                 if (choice == 1) {
36                     String bookName = JOptionPane.showInputDialog("Enter book name:");
37                     String authorName = JOptionPane.showInputDialog("Enter author name:");
38                     Book b = new Book(bookName, authorName);
39                     cart.removeCartItem(b);
40                     cart.getCartItems();
41                 } else if (choice == 2) {
42                     String bookName = JOptionPane.showInputDialog("Enter book name:");
43                 }
44             }
45         }
46     }
47 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Search Smart Insert 1:1:0

ENG US 8:36 AM 5/17/2024

Downloads - bookstore1/src/bookstore/PoSJava - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer Project Explorer

PoSJava AdminCart.java

```
1 package bookstore;
2 import javax.swing.JOptionPane;
3 public class PoS {
4     // user cart management system
5     public static void customerSystem() {
6         int n;
7         BookCart cart = new BookCart(0, null, 0.0, null, 0);
8         AdminCart admin = new AdminCart(0, null, 0.0, null, 0);
9         while (true) {
10             String input4 = JOptionPane.showInputDialog(null, "1. Add Book to Cart.\n2. Remove Book.\n3. Exit.\n4. Show Books in the store.\n5. Show Book Details.\n6. Remove some copies of the specific book from the cart.\n7. Remove all books from the cart.");
11             try {
12                 n = Integer.parseInt(input4);
13             } catch (NumberFormatException e) {
14                 JOptionPane.showMessageDialog(null, "Please enter a valid number.");
15             }
16             if (n == 1) {
17                 JOptionPane.showMessageDialog(null, "Add Book///");
18                 String input1 = JOptionPane.showInputDialog(null, "Enter book name:");
19                 String input2 = JOptionPane.showInputDialog(null, "Enter author name:");
20                 String input3 = JOptionPane.showInputDialog(null, "Enter number of books:");
21                 try {
22                     int in = Integer.parseInt(input3);
23                     cart.addBook(cart.getCartItems(), bookName, authorName, in);
24                 } catch (NumberFormatException e) {
25                     JOptionPane.showMessageDialog(null, "Please enter a valid number of books.");
26                 }
27             } else if (n == 2) {
28                 String input2 = JOptionPane.showInputDialog(null, "///Removing book from Cart");
29                 String input3 = JOptionPane.showInputDialog(null, "+ 1. Remove one book from the cart.\n" +
30                         "+ 2. Remove some copies of the specific book from the cart.\n" +
31                         "+ 3. Remove all books from the cart.");
32                 cart.removeBookFromCart();
33             } else if (n == 3) {
34                 int choice = Integer.parseInt(input4);
35                 if (choice == 1) {
36                     String bookName = JOptionPane.showInputDialog("Enter book name:");
37                     String authorName = JOptionPane.showInputDialog("Enter author name:");
38                     Book b = new Book(bookName, authorName);
39                     cart.removeCartItem(b);
40                     cart.getCartItems();
41                 } else if (choice == 2) {
42                     String bookName = JOptionPane.showInputDialog("Enter book name:");
43                 }
44             }
45         }
46     }
47 }
```

Task List

Find All Activate...

Connect Mylyn

86°F Haze

Search Smart Insert 1:1:0

ENG US 8:36 AM 5/17/2024