MIST352 Homework #5 (100 points)

## Homework Description:

**Objective:** Develop a simple bookstore management system using Java. The system should include functionality for managing books, processing orders, and handling customers.

Requirements:

1. **Classes and Inheritance:**
   * **Book**: Base class with properties like title, author, and price.
   * **DiscountBook**: Inherits from Book, includes additional properties like discount rate.
   * **Order**: Handles purchasing processes.
   * **Customer**: Manages customer details and interactions.
2. **Features:**
   * Add and manage books in the inventory.
   * Apply discounts to books.
   * Process sales transactions.
   * Store and retrieve customer information.