import java.util.Scanner;

public class MovieTicketBookingSystem {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Define movie theater capacity and price of tickets

int capacity = 50;

double ticketPrice = 10.0;

// Initialize available and sold seats

int availableSeats = capacity;

int soldSeats = 0;

// Display menu options

System.out.println("Welcome to Movie Ticket Booking System\n");

System.out.println("1. View Available Seats");

System.out.println("2. Book a Seat");

System.out.println("3. View Ticket Sales");

System.out.println("4. Quit\n");

// Prompt user for input and process their choice

int choice;

do {

System.out.print("Enter your choice: ");

choice = sc.nextInt();

switch (choice) {

case 1:

System.out.println("Available seats: " + availableSeats);

break;

case 2:

if (availableSeats == 0) {

System.out.println("Sorry, no seats are available.");

} else {

System.out.print("Enter number of seats to book: ");

int numSeats = sc.nextInt();

if (numSeats > availableSeats) {

System.out.println("Sorry, only " + availableSeats + " seats are available.");

} else {

availableSeats -= numSeats;

soldSeats += numSeats;

double totalPrice = numSeats \* ticketPrice;

System.out.println("You have booked " + numSeats + " seats for a total of $" + totalPrice);

}

}

break;

case 3:

double totalSales = soldSeats \* ticketPrice;

System.out.println("Total ticket sales: $" + totalSales);

break;

case 4:

System.out.println("Thank you for using the Movie Ticket Booking System!");

break;

default:

System.out.println("Invalid choice. Please try again.");

break;

}

System.out.println();

} while (choice != 4);

sc.close();

}

Output:

}