Continuous Assessment Question-4

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Question Set- ODD

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Q-The prices of a standard hotel room and hotel apartment are given as: Hotel Room: 50. bedrooms + 100.bathrooms. Hotel Apartment: The price of a standard room with the same number bedrooms and bathrooms plus 100. For example, if a standard room costs 200, then an apartment with the same number of bedrooms and bathrooms costs 300. Write the code reading the list of rooms booked for today and calculates the total profit for the hotel. Constraint: 1 <= n <= 100
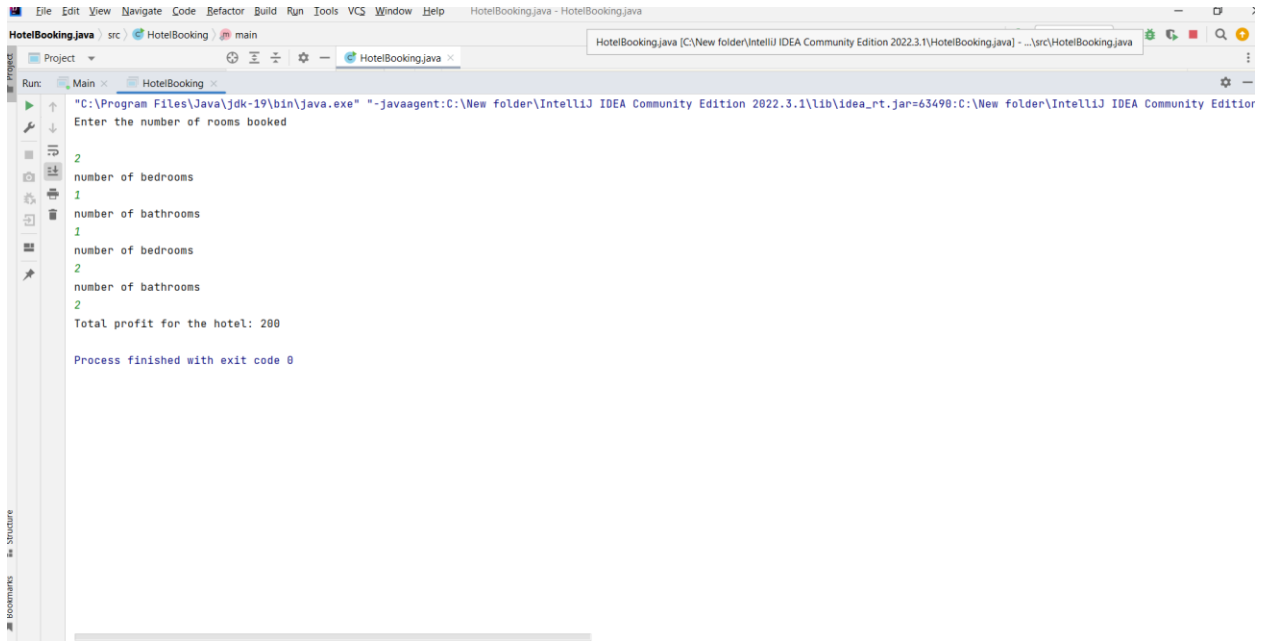
Code

```java
import java.util.Scanner;

public class HotelBooking {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter the number of rooms booked");
        int n = scanner.nextInt();
        int totalProfit = 0;
        for (int i = 0; i < n; i++) {
            System.out.println("number of bedrooms");
            int bedrooms = scanner.nextInt();
            System.out.println("number of bathrooms");
            int bathrooms = scanner.nextInt();
            int roomPrice = 50 * bedrooms + 100 * bathrooms;
            int apartmentPrice = roomPrice + 100;
            int profit = apartmentPrice - roomPrice;
            totalProfit += profit;
        }
        System.out.println("Total profit for the hotel: " + totalProfit);
```

```
        scanner.close();
    }
}
```

OUTPUT