

Develop a Java Swing application for the below scenarios.

Task 01

A famous hotel in Sri Lanka provides accommodation for their guests. The hotel has mainly two categories of rooms **A** and **B**. The guests of this hotel can be type **1** or **2**. The room charge for a day varies according to room type and guest type. The following table indicates room charges based on room type and guest type.

Room Type	A		B	
Guest Type	1	2	1	2
Room Charge (per day in LKR)	3,000	2,000	5,000	6,000

You are required to write a software application to perform the following:

- Input **Guest Type, Room Type** and **Number of Days used**
- Output total charge
- If the user enters an incorrect Guest type or room type, output suitable error messages.

Task 02

Develop a Swing based java Application to calculate monthly vehicle rent for a customer by accepting vehicle category and distance traveled in km from the user to display the bill amount. Develop the UI with proper labeling of the UI controls.

- Handle Format Exception if the user enters invalid characters for distance traveled.
- Use the Exception class to handle any other runtime errors

Light

Criteria	Value
First 50Kms – Package Usage	Rs. 5000.00
Additional Km s	Rs. 150 per Km
Monthly Rental	Rs.400.00

Heavy

Criteria	Value
First 70Kms – Package Usage	Rs. 8000.00
Additional Km s	Rs. 200 per GB
Monthly Rental	Rs.700.00

Rental=Package Usage + Monthly Rental + (Additional Distance*Rate per Additional)