# CAR RENTALS

## NIHAL AGARWAL

# ABSTRACT

Today, many people prefer renting cars, instead of using a private car for trips. And for that, Kamal and his friends have started a company that provides a huge collection of cars for rent, and for implementing this we have created an interface that will help the customer to rent a car without direct interaction.

Today we shall have a review of that interface and understand about how that interface works.

First, we will have to collect the client's personal information needed for verification (PAN Number, Aadhar Card, Driving License) and providing a car. After that, if all the information provided by the client is valid, then the client has to enter details of the number of days he wants to rent the car.

FLOW CHART

START

Ask the client for personal details like Name ,Aadhar Number ,Pan Number ,Driving License

Check for Aadhar card details and Pan Details and Driving License Details.**(refer the upcoming parts of this flow chart for checking the condition )**
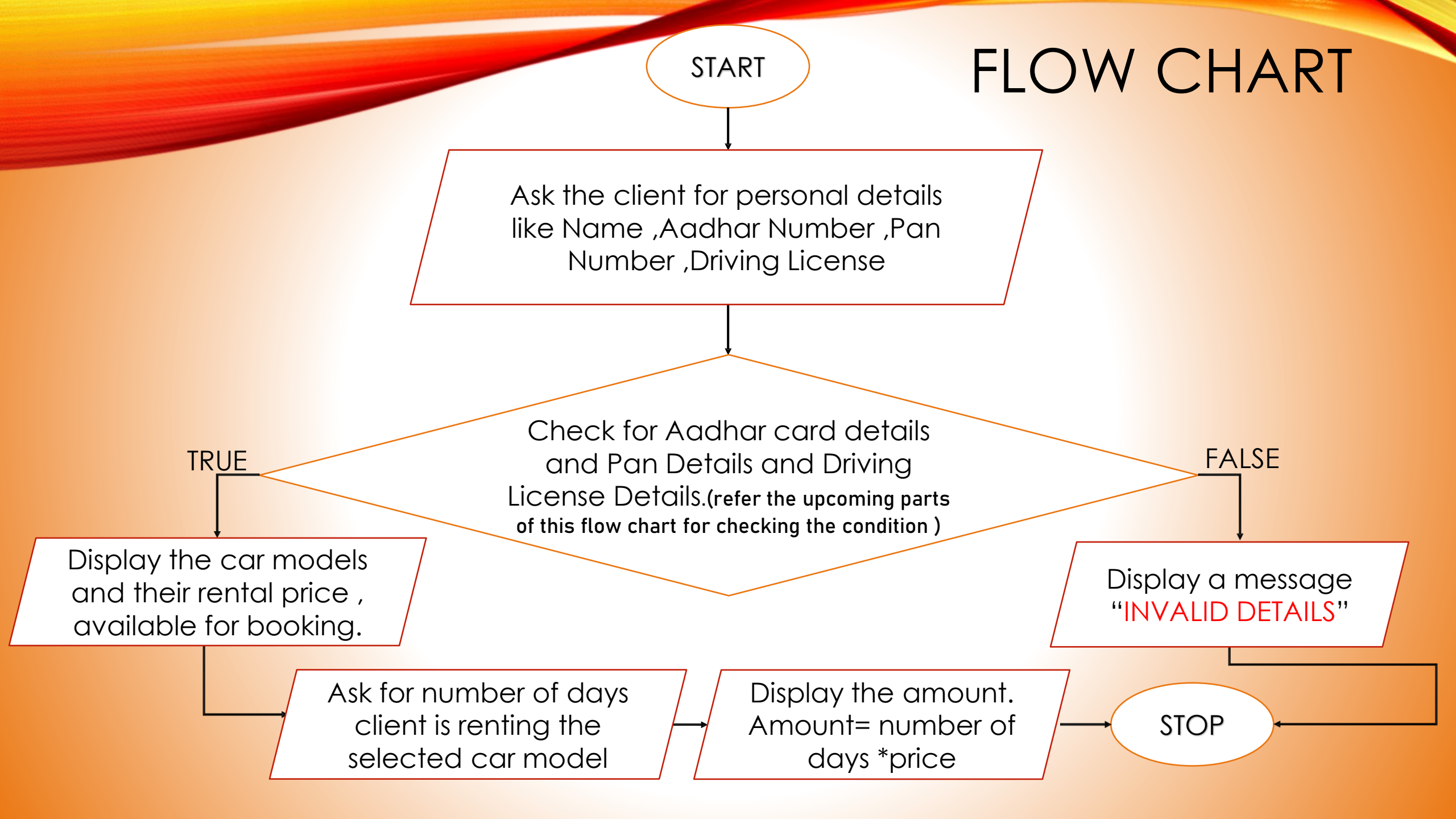
TRUE

FALSE

Display the car models and their rental price , available for booking.

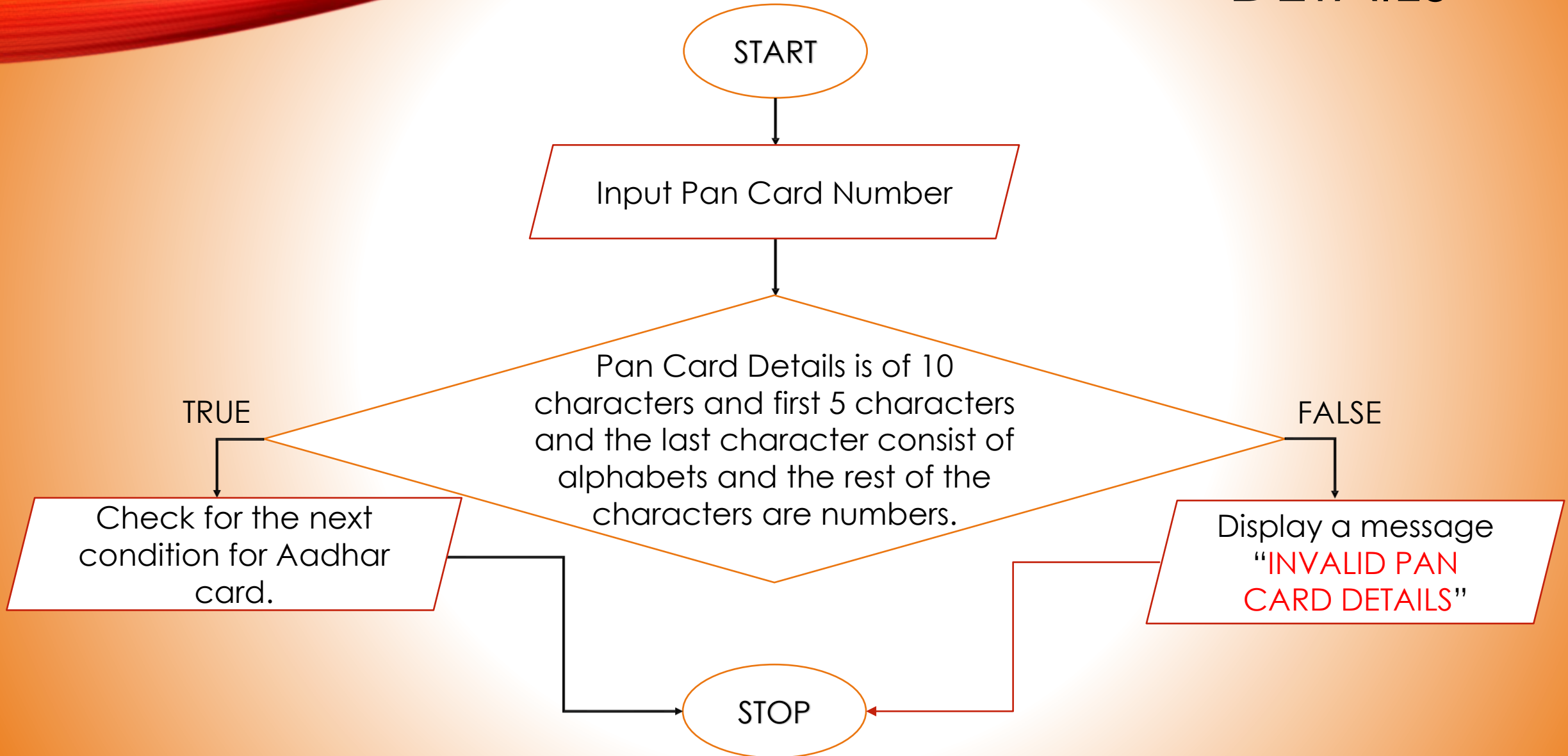Display a message "INVALID DETAILS"

Ask for number of days client is renting the selected car model

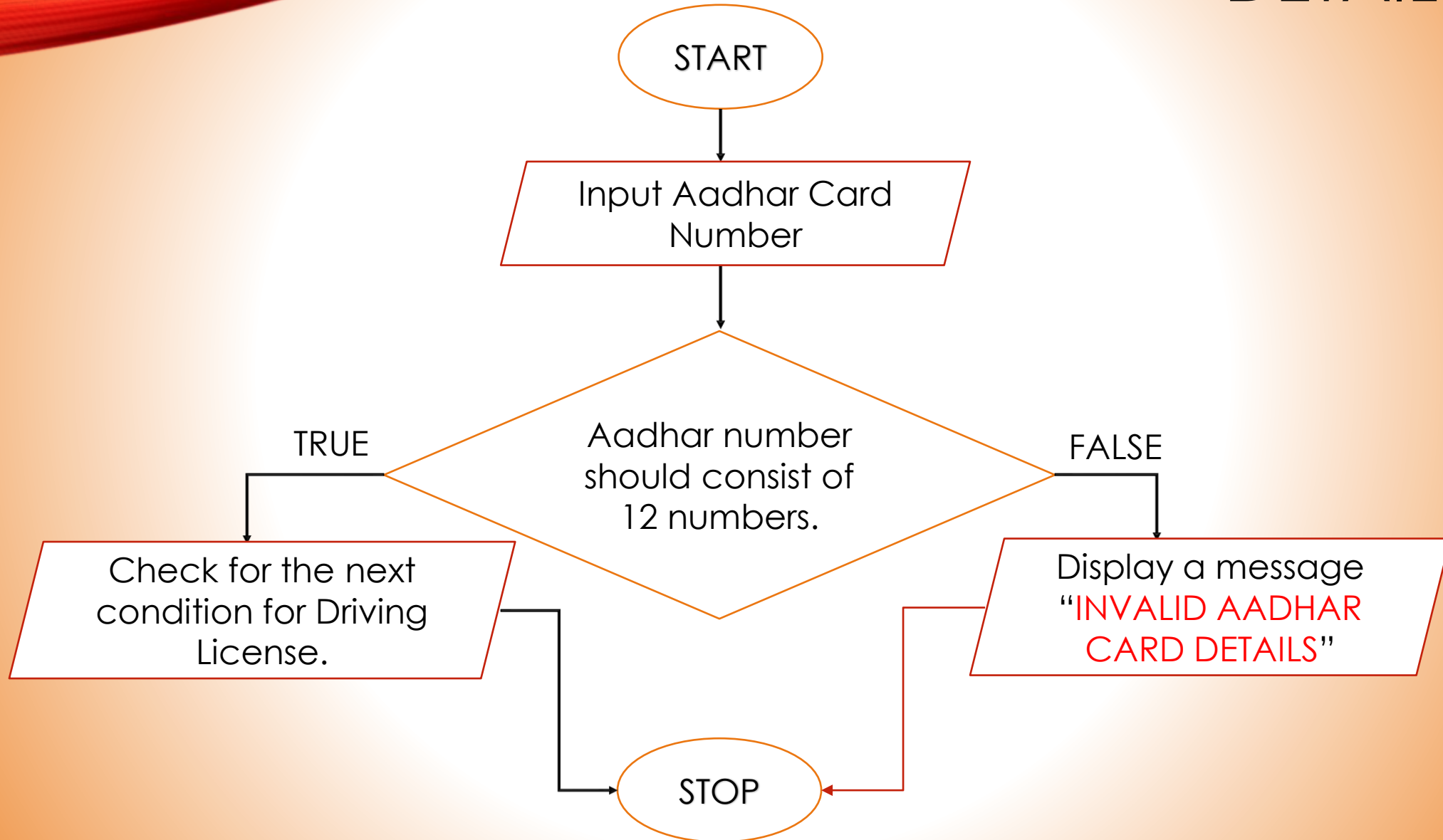Display the amount. Amount= number of days *price
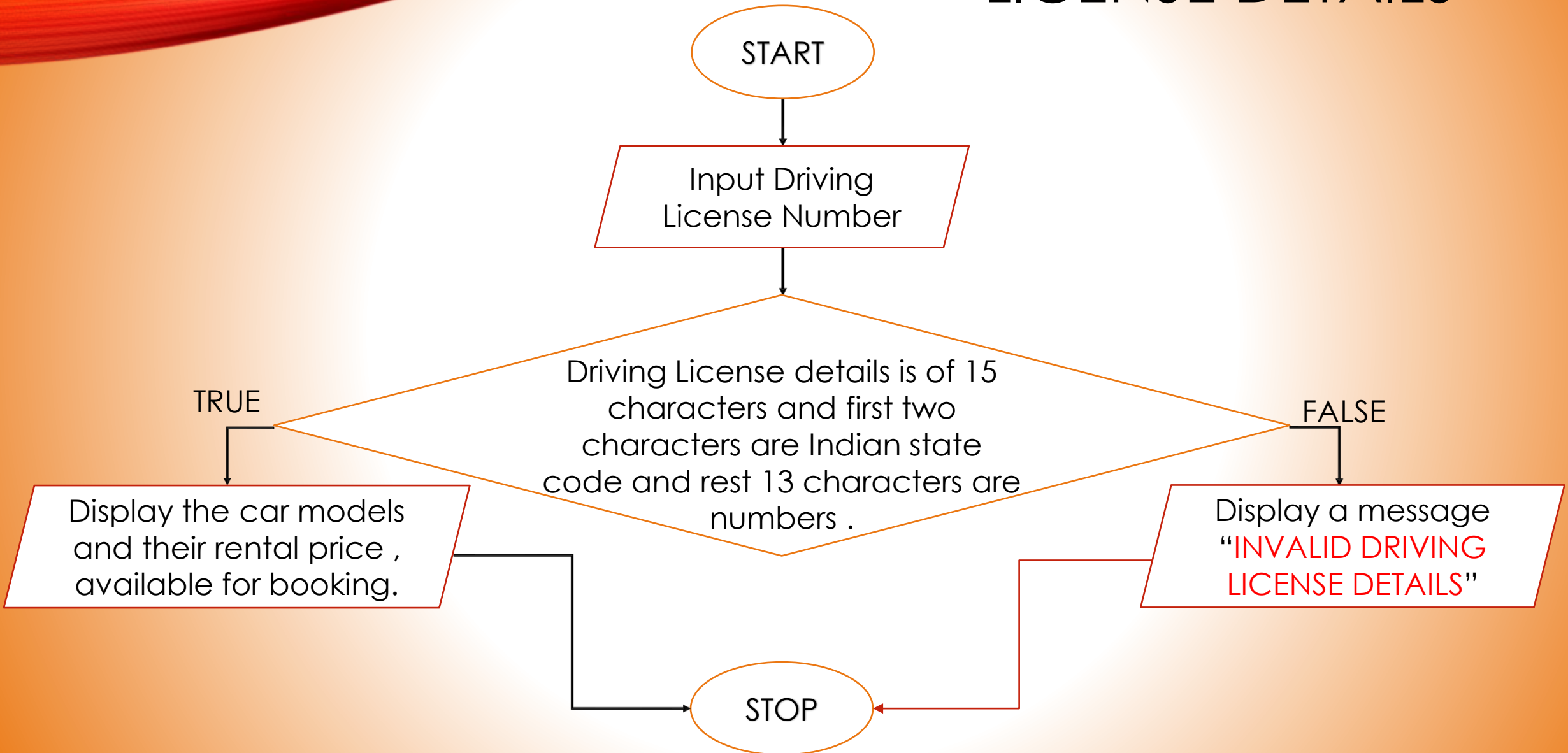
STOP

# FLOW CHART FOR CHECKING PAN CARD DETAILS

# FLOW CHART FOR CHECKING AADHAR DETAILS
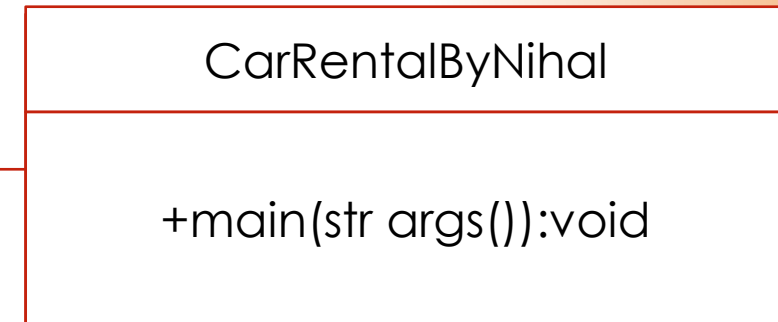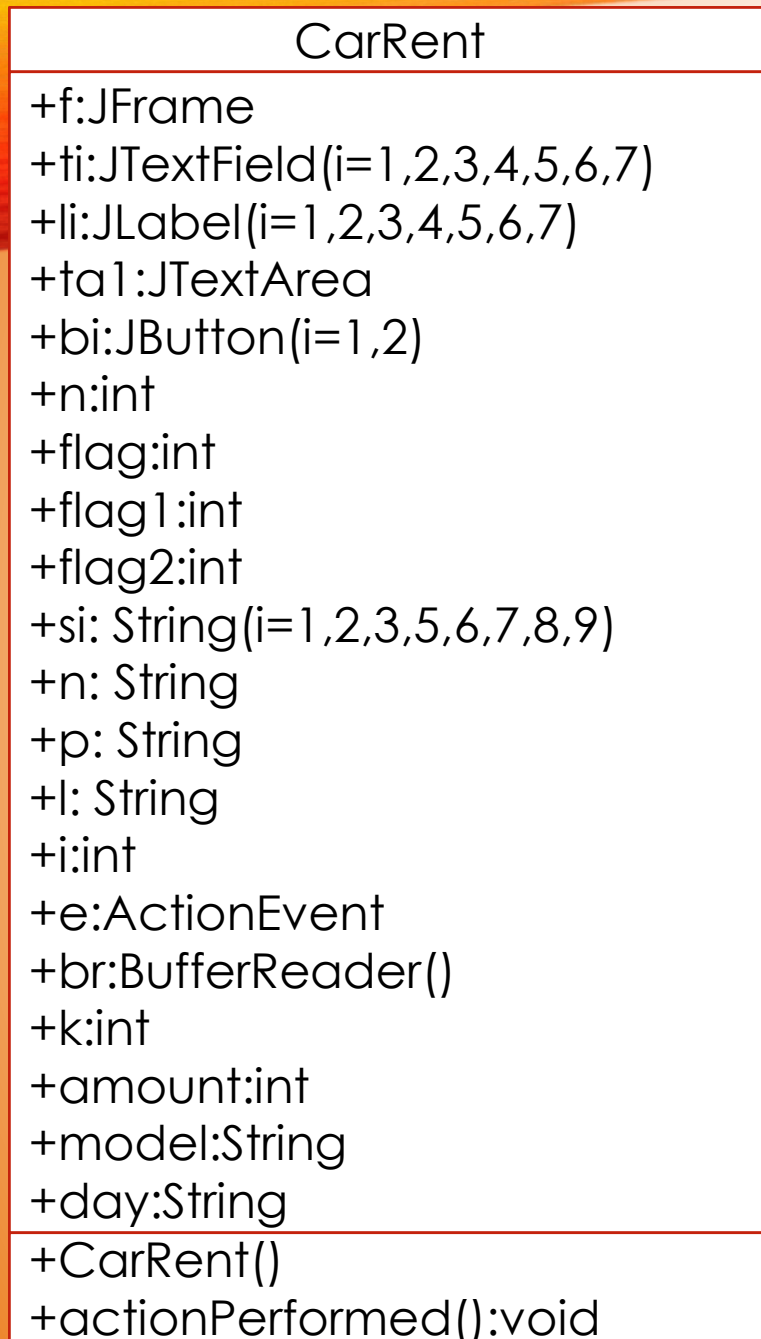
START

Input Aadhar Card Number

Aadhar number should consist of 12 numbers.

TRUE

FALSE

Check for the next condition for Driving License.

Display a message "INVALID AADHAR CARD DETAILS"

STOP

# FLOW CHART FOR CHECKING DRIVING LICENSE DETAILS

**CarRent**

+f:JFrame
+ti:JTextField(i=1,2,3,4,5,6,7)
+li:JLabel(i=1,2,3,4,5,6,7)
+ta1:JTextArea
+bi:JButton(i=1,2)
+n:int
+flag:int
+flag1:int
+flag2:int
+si: String(i=1,2,3,5,6,7,8,9)
+n: String
+p: String
+l: String
+i:int
+e:ActionEvent
+br:BufferReader()
+k:int
+amount:int
+model:String
+day:String
+CarRent()
+actionPerformed():void

**CarRentalByNihal**

+main(str args()):void

# ALGORITHM

1. Start
2. Client input his details
    1. Name
    2. Pan Card Number
    3. Aadhar Card Details
    4. Driving License Details
3. Check if the details entered by the client are according to the general format
    1. Pan Card Details is of 10 characters and first 5 characters and the last character consist of alphabets and the rest of the characters are numbers.
    2. Aadhar number should consist of 12 numbers.
    3. Driving License details is of 15 characters and first two characters are Indian state code and rest 13 characters are numbers .
4. If the details provided are valid then allow the client to check for available car models and their rental price . Then allow him to enter number of days he want's to rent the car. And then display the final charges to be paid by the client which will be "Number of days * rental price"
5. If the details provided are invalid then display "INVALID DETAILS".
6. Stop.

GUI FRAME OF INTERFACE

FOR VALID INPUTS

**Car Rentals By Nihal**

Enter name: | Nihal Agarwal

Enter Pan number: | DGFSD1546G

Enter Aadhar Card Number: | 784594561234

Enter Driving License ID: | TS1452789654231

**Submit**

**f.txt - Notepad**

File  Edit  Format  View  Help

NAME: Nihal Agarwal
PAN CARD: DGFSD1546G
AADHAR CARD: 784594561234
LICENSE :TS1452789654231
CAR BOOKED: Toyota Innova Crysta
NUMBER OF DAYS:10
AMOUNT: 12500

| Car Models | Rental Price(Rs.) |
|---|---|
| 1.Swift Dzire | 950 |
| 2.Tata Hexa | 1000 |
| 3.Hyundai i10 | 1050 |
| 4.Hyundai Creta | 1100 |
| 5.Maruti Suzuki Ertiga | 1150 |
| 6.Renault Duster | 1200 |
| 7.Toyota Innova Crysta | 1250 |
| 8.Ford EcoSport | 1300 |
| 9.Toyota Fortuner | 1350 |
| 10.Hyundai Venue | 1400 |

Enter number of days you want: | 10
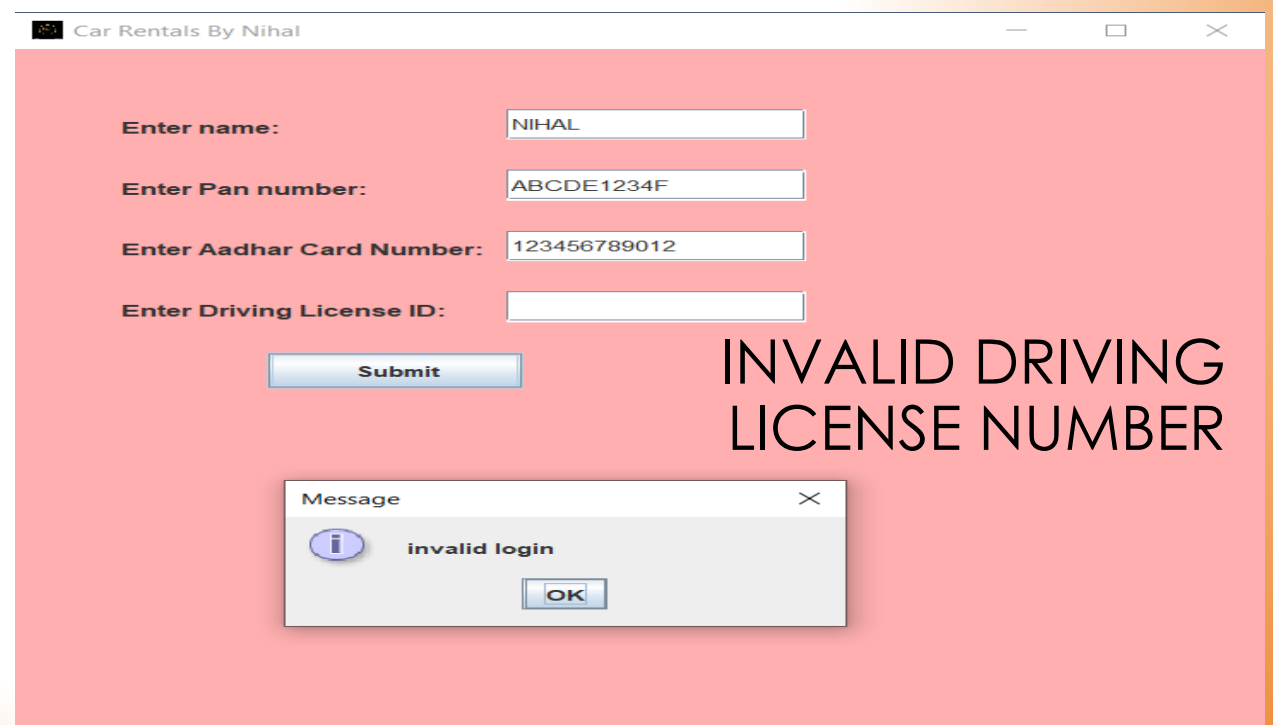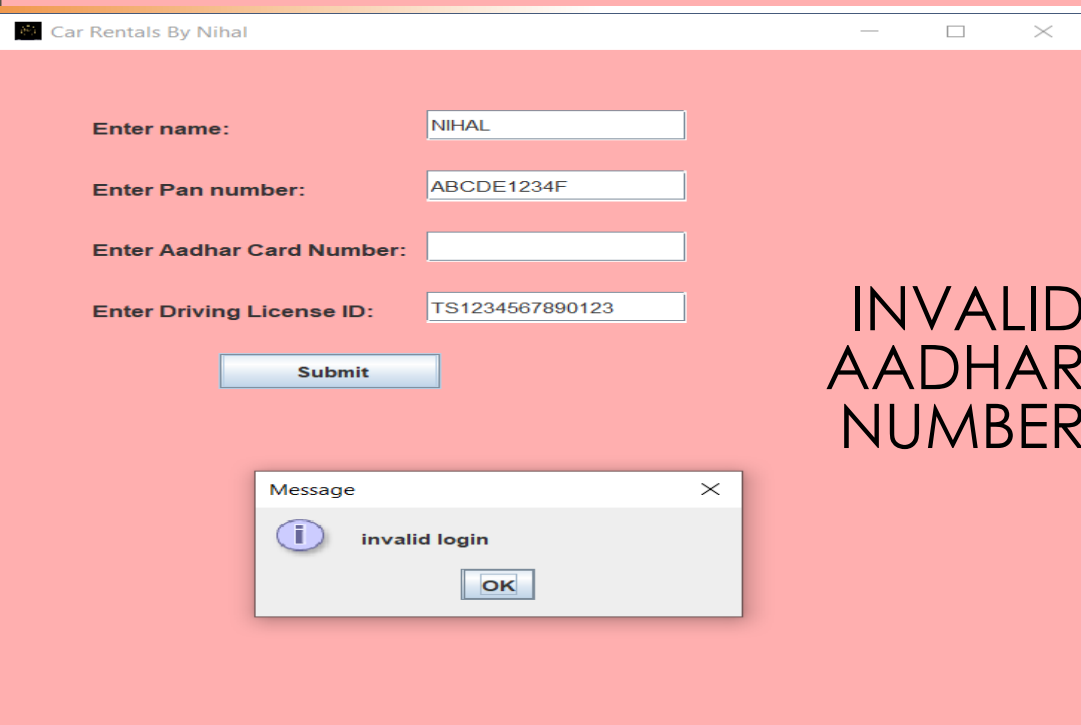
Total Amount: | 12500

CLOSE

Book (×10)

Ln 1, Col 1 | 100% | Unix (LF) | UTF-8
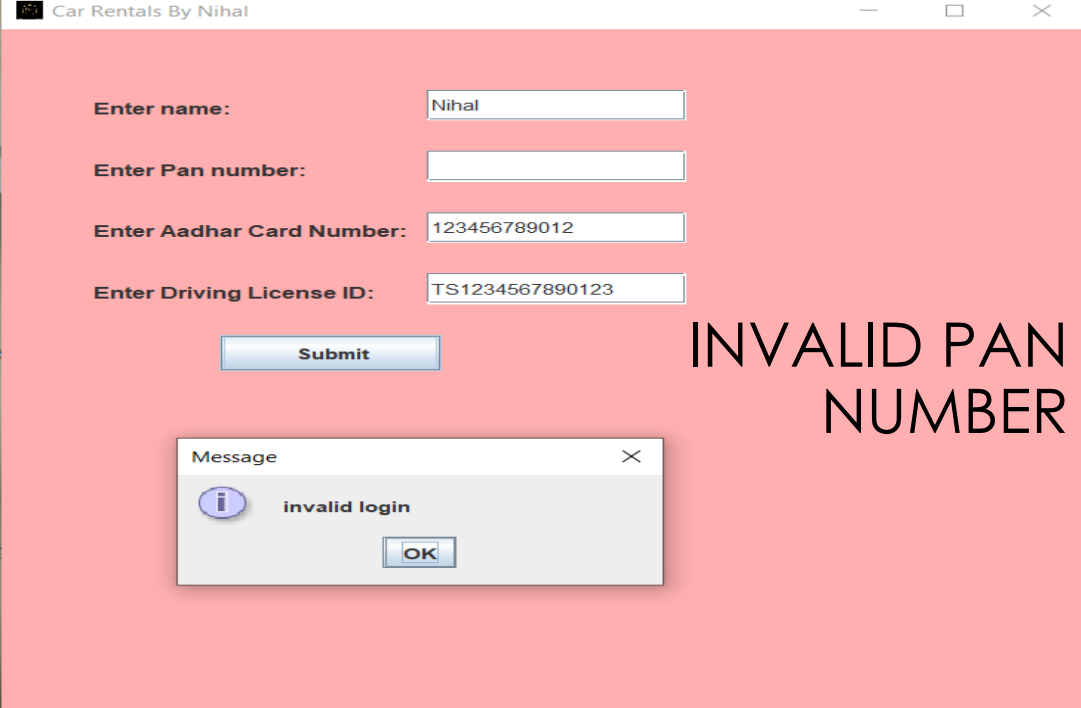
GUI FRAME OF INTERFACE

FOR INVALID INPUTS

INVALID PAN NUMBER

Car Rentals By Nihal

Enter name: Nihal

Enter Pan number:

Enter Aadhar Card Number: 123456789012

Enter Driving License ID: TS1234567890123

Submit

Message

invalid login

OK

INVALID AADHAR NUMBER

Car Rentals By Nihal

Enter name: NIHAL

Enter Pan number: ABCDE1234F

Enter Aadhar Card Number:

Enter Driving License ID: TS1234567890123

Submit

Message

invalid login

OK

INVALID DRIVING LICENSE NUMBER

Car Rentals By Nihal

Enter name: NIHAL

Enter Pan number: ABCDE1234F

Enter Aadhar Card Number: 123456789012

Enter Driving License ID:

Submit

Message

invalid login

OK

THANK YOU