There are three classes defined to handle the car rental system.

1. The “Car” class defines the attributes of the car and be extended on to add more behaviours and attributes.
2. The CarRentalController” class is responsible for handling all the operations of booking and displaying available cars.
3. The “CarRentalSystem” class is responsible for handling all customer interactions.

The system is designed to show options for customers to choose from. Customers will need to enter the option number and this will be validated.

There is a forever loop which can take as many requests from customers.

All inputs are validated as much as possible.

When the customer chooses to book, they are asked to enter the period. After they choose the period and the number of cars, the system will validate the stock availability and proceed. It will notify the customer if there are not enough cars available.