CarConnect, a Car Rental Platform

Creating Tables:-

```
import mysgl.connector
def create tables():
    conn = mysql.connector.connect(
       host="localhost",
       user="root",
       password="HARSHA1@singh",
       database="carrental"
    cursor = conn.cursor()
    create_customer_table = """
    CREATE TABLE Customer (
       CustomerID INT AUTO INCREMENT PRIMARY KEY,
       FirstName VARCHAR(255),
       LastName VARCHAR (255),
      Email VARCHAR (255),
      PhoneNumber VARCHAR(20),
      Address VARCHAR(255),
     Username VARCHAR(50) UNIQUE,
     Password VARCHAR(255),
    RegistrationDate DATE
    )
    11 11 11
    create vehicle table = """
   CREATE TABLE Vehicle (
       VehicleID INT AUTO INCREMENT PRIMARY KEY,
       Model VARCHAR (255),
       Make VARCHAR (255),
       Year INT,
       Color VARCHAR(50),
      RegistrationNumber VARCHAR (50) UNIQUE,
     Availability BOOLEAN,
    DailyRate DECIMAL(10, 2)
    )
    ** ** **
    create reservation table = """
   CREATE TABLE Reservation (
   ReservationID INT AUTO INCREMENT PRIMARY KEY,
       CustomerID INT,
       VehicleID INT,
      StartDate DATETIME,
      EndDate DATETIME,
      TotalCost DECIMAL(10, 2),
      Status VARCHAR (50),
      FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),
     FOREIGN KEY (VehicleID) REFERENCES Vehicle(VehicleID)
   )
  " " "
    create admin table = """
  CREATE TABLE Admin (
       AdminID INT AUTO INCREMENT PRIMARY KEY,
       FirstName VARCHAR(255),
    LastName VARCHAR(255),
    Email VARCHAR(255),
```

```
PhoneNumber VARCHAR(20),
      Username VARCHAR (50) UNIQUE,
     Password VARCHAR (255),
     Role VARCHAR(50),
     JoinDate DATE
    )
   11 11 11
    try:
        cursor.execute(create customer table)
        cursor.execute(create vehicle table)
        cursor.execute(create_reservation_table)
        cursor.execute(create admin table)
        conn.commit()
        print("Tables created successfully!")
    except mysql.connector.Error as err:
       print("Error:", err)
    finally:
        cursor.close()
        conn.close()
if name == " main ":
    create tables()
```

Model/ Entity Classes:-

```
class Customer:
    def __init__(self, customer_id, first_name, last name, email, phone number,
address, username, password,
                  registration date):
        self. customer id = customer id
        self.__first_name = first_name
self.__last_name = last_name
self.__email = email
        self.__phone_number = phone_number
        self.\__address = address
        self. username = username
        self. password = password
        self. registration date = registration date
    def get_customer_id(self):
        return self. customer id
    def get first name (self):
        return self. first name
    def get last name(self):
        return self. last name
    def get email(self):
        return self. email
    def get phone number(self):
        return self. phone number
    def get address(self):
        return self.__address
```

```
def get username(self):
       return self. username
    def get password(self):
       return self. password
    def get registration date(self):
        return self. registration date
    def set first name(self, first name):
        self. first name = first name
    def set_last_name(self, last_name):
        self. last name = last name
    def set email(self, email):
        self. email = email
    def set phone number(self, phone_number):
        self. phone number = phone number
    def set address(self, address):
        self. address = address
    def set username(self, username):
        self. username = username
    def set password(self, password):
        self. password = password
class Vehicle:
    def init (self, vehicle id, model, make, year, color, registration number,
availability, daily rate):
       self.__vehicle_id = vehicle_id
        self. model = model
       self.__make = make
        self.__year = year
        self.__color = color
        self.__registration_number = registration number
        self.__availability = availability
        self. daily rate = daily rate
    def get vehicle id(self):
       return self. vehicle id
    def get model(self):
        return self. model
    def get make(self):
       return self.__make
    def get year(self):
       return self. year
    def get color(self):
        return self. color
    def get registration number (self):
        return self. registration number
    def is available (self):
        return self. availability
```

```
def get daily rate(self):
        return self. daily rate
    def set model(self, model):
       self. model = model
    def set make(self, make):
        self. make = make
    def set year(self, year):
        self. year = year
    def set color(self, color):
        self. color = color
    def set registration number(self, registration number):
        self. registration number = registration number
    def set availability(self, availability):
        self. availability = availability
    def set daily rate(self, daily rate):
        self. daily rate = daily rate
class Reservation:
def __init__(self, reservation_id, customer_id, vehicle_id, start_date,
end_date, total_cost, status):
        self.__reservation_id = reservation_id
        self.__customer_id = customer id
        self. vehicle id = vehicle id
        self.__start_date = start date
        self. end date = end date
        self.__total_cost = total cost
        self. status = status
    # Getters
    def get reservation id(self):
       return self. reservation id
    def get customer id(self):
        return self. customer id
    def get vehicle id(self):
        return self. vehicle id
    def get start date(self):
        return self. start date
    def get end date(self):
        return self.__end_date
    def get total cost(self):
       return self. total cost
    def get_status(self):
        return self. status
    def set customer id(self, customer id):
        self. customer id = customer id
    def set vehicle id(self, vehicle id):
        self. vehicle id = vehicle id
```

```
def set start date(self, start date):
        self. start date = start date
    def set end date(self, end date):
        self. end date = end date
    def set total cost(self, total cost):
        self. total cost = total cost
    def set status(self, status):
        self. status = status
class Admin:
    def __init__(self, admin_id, first_name, last_name, email, phone_number,
username, password, role, join date):
        self. admin id = admin id
        self.__first_name = first_name
self.__last_name = last_name
self.__email = email
        self.__phone_number = phone_number
        self.__username = username
        self.__password = password
        self. role = role
        self. join date = join date
    def get admin id(self):
        return self. admin id
    def get first name(self):
        return self. first name
    def get last name(self):
        return self.__last_name
    def get email(self):
        return self. email
    def get phone number(self):
        return self. phone number
    def get username(self):
        return self. username
    def get password(self):
        return self. password
    def get role(self):
        return self. role
    def get_join_date(self):
        return self.__join_date
    def set first name (self, first name):
        self. first name = first name
    def set last name(self, last name):
        self. last name = last name
    def set email(self, email):
        self. email = email
    def set phone number (self, phone number):
```

```
self. phone number = phone number
    def set username(self, username):
        self. username = username
    def set password(self, password):
        self. password = password
    def set role(self, role):
        self. role = role
Customer Service:
class ICustomerService(ABC):
    @abstractmethod
    def get customer by id(self, customer id):
        pass
    @abstractmethod
    def get customer by username(self, username):
        pass
    @abstractmethod
    def register customer(self, customer data):
        pass
    @abstractmethod
    def update customer(self, customer id, updated data):
        pass
    @abstractmethod
    def delete customer(self, customer id):
Vehicle Service:
class IVehicleService(ABC):
    @abstractmethod
    def get_vehicle_by_id(self, vehicle id):
        pass
    @abstractmethod
    def get available vehicles (self):
        pass
    @abstractmethod
    def add vehicle(self, vehicle data):
        pass
    @abstractmethod
    def update_vehicle(self, vehicle_id, updated_vehicle_data):
        pass
    @abstractmethod
    def remove vehicle(self, vehicle id):
        pass
```

Reservation Service:

```
class IReservationService(ABC):
    @abstractmethod
    def get reservation by id(self, reservation id):
    @abstractmethod
    def get reservations by customer id(self, customer id):
    @abstractmethod
    def create reservation (self, reservation data):
        pass
    @abstractmethod
    def update reservation (self, reservation id, updated reservation data):
        pass
    @abstractmethod
    def cancel reservation (self, reservation id):
        pass
Admin Service:
class IAdminService(ABC):
    @abstractmethod
    def get admin by id(self, admin id):
        pass
    @abstractmethod
    def get admin by username (self, username):
        pass
    @abstractmethod
    def register admin(self, admin data):
    @abstractmethod
    def update admin(self, admin id, updated admin data):
        pass
    @abstractmethod
    def delete admin(self, admin id):
        pass
Database Context:
class DatabaseContext:
        init (self, host, user, password, database):
        self.connection = mysql.connector.connect(
            host=host,
            user=user,
            password=password,
            database=database
        )
    def del (self):
        if self.connection.is_connected():
            self.connection.close()
    def execute query(self, query, params=None):
        cursor = self.connection.cursor(dictionary=True)
```

```
if params:
    cursor.execute(query, params)
else:
    cursor.execute(query)
return cursor
```

Interfaces:-

```
ICustomerService:
class CustomerService(ICustomerService):
    def init (self, database context):
        self.database context = database context
    def get customer by id(self, customer id):
        return self.database context.get customer by id(customer id)
    def get customer by username (self, username):
        return self.database context.get customer by username(username)
    def register customer(self, customer data):
        return self.database context.register customer(customer data)
    def update customer(self, customer id, updated data):
        return self.database context.update customer(customer id, updated data)
    def delete customer(self, customer id):
        return self.database context.delete customer (customer id)
IVehicleService:
class VehicleService(IVehicleService):
    def init (self, database context):
        self.database context = database context
    def get vehicle by id(self, vehicle id):
        return self.database context.get vehicle by id(vehicle id)
    def get available vehicles (self):
        return self.database context.get available vehicles()
    def add vehicle(self, vehicle data):
        return self.database context.add vehicle (vehicle data)
    def update vehicle (self, vehicle id, updated vehicle data):
        return self.database context.update vehicle (vehicle id,
updated vehicle data)
    def remove vehicle (self, vehicle id):
        return self.database context.remove_vehicle(vehicle_id)
```

IReservationService:

```
class ReservationService(IReservationService):
    def __init__(self, database_context):
        self.database_context = database_context

def get_reservation_by_id(self, reservation_id):
    return self.database_context.get_reservation_by_id(reservation_id)
```

```
def get reservations by customer id(self, customer id):
        return self.database context.get reservations by customer id(customer id)
    def create reservation (self, reservation data):
        return self.database context.create reservation(reservation data)
    def update reservation (self, reservation id, updated reservation data):
        return self.database context.update reservation(reservation id,
updated reservation data)
    def cancel reservation (self, reservation id):
        return self.database context.cancel reservation (reservation id)
IAdminService:
class AdminService(IAdminService):
    def init (self, database context):
        self.database context = database context
    def get admin by id(self, admin id):
        return self.database context.get admin by id(admin id)
    def get admin by username (self, username):
        return self.database context.get admin by username(username)
    def register admin(self, admin data):
        return self.database context.register admin(admin data)
    def update admin(self, admin id, updated admin data):
        return self.database context.update admin(admin id, updated admin data)
    def delete admin(self, admin id):
        return self.database context.delete admin(admin id)
Customer Operations
def get customer by id(self, customer id):
    query = "SELECT * FROM Customer WHERE CustomerID = %s"
    cursor = self.execute_query(query, (customer_id,))
    return cursor.fetchone()
def get_customer_by_username(self, username):
    query = "SELECT * FROM Customer WHERE Username = %s"
    cursor = self.execute query(query, (username,))
    return cursor.fetchone()
def register customer(self, customer data):
    query = "INSERT INTO Customer (FirstName, LastName, Email, PhoneNumber,
Address, Username, Password, RegistrationDate) VALUES (%s, %s, %s, %s, %s, %s, %s, %s,
%s) "
    cursor = self.execute_query(query, customer_data)
    self.connection.commit()
    return cursor.lastrowid
def update customer(self, customer id, updated data):
    query = "UPDATE Customer SET FirstName = %s, LastName = %s, Email = %s,
PhoneNumber = %s, Address = %s, Username = %s, Password = %s, RegistrationDate = %s
WHERE CustomerID = %s"
```

updated_data += (customer_id,)

```
cursor = self.execute query(query, updated data)
    self.connection.commit()
    return cursor.rowcount
def delete customer (self, customer id):
    query = "DELETE FROM Customer WHERE CustomerID = %s"
    cursor = self.execute query(query, (customer id,))
    self.connection.commit()
    return cursor.rowcount
Vehicle operations
def get vehicle by id(self, vehicle id):
    query = "SELECT * FROM Vehicle WHERE VehicleID = %s"
    cursor = self.execute query(query, (vehicle id,))
    return cursor.fetchone()
def get available vehicles (self):
    query = "SELECT * FROM Vehicle WHERE Availability = 1"
    cursor = self.execute query(query)
    return cursor.fetchall()
def add vehicle (self, vehicle data):
    query = "INSERT INTO Vehicle (Model, Make, Year, Color, RegistrationNumber,
Availability, DailyRate) VALUES (%s, %s, %s, %s, %s, %s, %s)"
    cursor = self.execute query(query, vehicle data)
    self.connection.commit()
    return cursor.lastrowid
def update vehicle (self, vehicle id, updated vehicle data):
    query = "UPDATE Vehicle SET Model = %s, Make = %s, Year = %s, Color = %s,
RegistrationNumber = %s, Availability = %s, DailyRate = %s WHERE VehicleID = %s"
    updated vehicle data += (vehicle id,)
    cursor = self.execute query(query, updated vehicle data)
    self.connection.commit()
    return cursor.rowcount
def remove vehicle (self, vehicle id):
    query = "DELETE FROM Vehicle WHERE VehicleID = %s"
    cursor = self.execute query(query, (vehicle id,))
    self.connection.commit()
    return cursor.rowcount
Reservation operations
def get reservation by id(self, reservation id):
    query = "SELECT * FROM Reservation WHERE ReservationID = %s"
    cursor = self.execute query(query, (reservation id,))
    return cursor.fetchone()
def get reservations by customer id(self, customer id):
    query = "SELECT * FROM Reservation WHERE CustomerID = %s"
    cursor = self.execute_query(query, (customer_id,))
    return cursor.fetchall()
def create reservation (self, reservation data):
    query = "INSERT INTO Reservation (CustomerID, VehicleID, StartDate, EndDate,
TotalCost, Status) VALUES (%s, %s, %s, %s, %s, %s, %s)"
    cursor = self.execute query(query, reservation data)
    self.connection.commit()
    return cursor.lastrowid
```

```
def update_reservation(self, reservation_id, updated_reservation_data):
    query = "UPDATE Reservation SET CustomerID = %s, VehicleID = %s, StartDate =
%s, EndDate = %s, TotalCost = %s, Status = %s WHERE ReservationID = %s"
    updated_reservation_data += (reservation_id,)
    cursor = self.execute_query(query, updated_reservation_data)
    self.connection.commit()
    return cursor.rowcount

def cancel_reservation(self, reservation_id):
    query = "DELETE FROM Reservation WHERE ReservationID = %s"
    cursor = self.execute_query(query, (reservation_id,))
    self.connection.commit()
    return cursor.rowcount
```

Admin operations

```
def get admin by id(self, admin id):
    query = "SELECT * FROM Admin WHERE AdminID = %s"
    cursor = self.execute query(query, (admin id,))
    return cursor.fetchone()
def get admin by username (self, username):
    query = "SELECT * FROM Admin WHERE Username = %s"
    cursor = self.execute query(query, (username,))
    return cursor.fetchone()
def register admin(self, admin data):
    query = "INSERT INTO Admin (FirstName, LastName, Email, PhoneNumber, Username,
Password, Role, JoinDate) VALUES (%s, %s, %s, %s, %s, %s, %s, %s)"
    cursor = self.execute query(query, admin data)
    self.connection.commit()
    return cursor.lastrowid
def update admin(self, admin id, updated admin data):
    query = "UPDATE Admin SET FirstName = %s, LastName = %s, Email = %s,
PhoneNumber = %s, Username = %s, Password = %s, Role = %s, JoinDate = %s WHERE
AdminID = %s"
    updated_admin_data += (admin id,)
    cursor = self.execute query(query, updated admin data)
    self.connection.commit()
    return cursor.rowcount
def delete admin(self, admin id):
    query = "DELETE FROM Admin WHERE AdminID = %s"
    cursor = self.execute query(query, (admin id,))
    self.connection.commit()
    return cursor.rowcount
```

Custom Exceptions:-

```
class AuthenticationException(Exception):
    def init (self, message="Authentication failed. Incorrect username or
password."):
       self.message = message
        super(). init (self.message)
class ReservationException (Exception):
    def init (self, message="Reservation failed."):
        self.message = message
        super(). init (self.message)
class VehicleNotFoundException(Exception):
    def init (self, message="Vehicle not found."):
        self.message = message
        super().__init__(self.message)
class AdminNotFoundException(Exception):
    def __init__(self, message="Admin not found."):
        self.message = message
        super(). init (self.message)
class InvalidInputException(Exception):
    def init (self, message="Invalid input data."):
        self.message = message
        super(). init (self.message)
class DatabaseConnectionException(Exception):
    def init (self, message="Database connection failed."):
        self.message = message
        super().__init__(self.message)
def login(username, password):
    if not is valid credentials (username, password):
        raise AuthenticationException()
def make reservation (vehicle id):
    if not is vehicle available (vehicle id):
        raise ReservationException()
def get vehicle details (vehicle id):
    vehicle = find vehicle (vehicle id)
    if not vehicle:
        raise VehicleNotFoundException()
def get admin details (admin id):
    admin = find admin(admin id)
    if not admin:
        raise AdminNotFoundException()
def validate input(data):
    if not is valid(data):
```

```
raise InvalidInputException()

def connect_to_database():
    if not is_database_connected():
        raise DatabaseConnectionException()

Main.py:-

from dao import CustomerService, VehicleService, ReservationS
from exception import AuthenticationException, ReservationExc
VehicleNotFoundException, AdminNotFoundException, InvalidInpu
DatabaseConnectionException
```

```
from dao import CustomerService, VehicleService, ReservationService, AdminService
from exception import AuthenticationException, ReservationException,
VehicleNotFoundException, AdminNotFoundException, InvalidInputException,
class CarConnect:
    def __init__(self):
        self.db context = DatabaseContext("localhost", "root", "HARSHA1@singh",
"carrental")
    def display menu(self):
        print("\nWelcome to CarConnect Management System")
        print("1. Customer Management")
        print("2. Vehicle Management")
        print("3. Reservation Management")
        print("4. Admin Management")
        print("5. Exit")
    def run(self):
        while True:
            self.display menu()
            choice = input("Enter your choice: ")
            if choice == "1":
                self.customer management()
            elif choice == "2":
                self.vehicle management()
            elif choice == "\overline{3}":
                self.reservation management()
            elif choice == "4":
                self.admin management()
            elif choice == "5":
                print("Exiting CarConnect Management System. Goodbye!")
                print("Invalid choice. Please enter a valid option.")
    def customer management(self):
        customer service = CustomerService(self.db context)
        while True:
            print("\nCustomer Management:")
            print("1. Register Customer")
            print("2. Update Customer")
            print("3. Delete Customer")
            print("4. Show customer by id:")
            print("5. Go back")
            choice = input("Enter your choice: ")
            if choice == "1":
                first name = input("Enter first name: ")
                last name = input("Enter last name: ")
                email = input("Enter email: ")
                phone number = input("Enter phone number: ")
```

```
address = input("Enter address: ")
                username = input("Enter username: ")
                password = input("Enter password: ")
                registration date = input("Enter registration date (YYYY-MM-DD): ")
                customer data = (first name, last name, email, phone number,
address, username, password, registration date)
                customer service.register customer(customer data)
                print("Customer registered successfully")
            elif choice == "2":
                customer id = input("Enter customer ID: ")
                first name = input("Enter first name: ")
                last name = input("Enter last name: ")
                email = input("Enter email: ")
                phone number = input("Enter phone number: ")
                address = input("Enter address: ")
                username = input("Enter username: ")
                password = input("Enter password: ")
                customer data = (first name, last name, email, phone number,
address, username, password, customer id)
                customer service.update customer(customer data)
            elif choice == "3":
                customer id = input("Enter customer ID: ")
                customer service.delete customer(customer id)
            elif choice == "4":
                customer id = input("Enter Customer ID: ")
                customer data = customer service.get customer by id(customer id)
                if customer data:
                    print("Customer Details:")
                    print(customer data)
                else:
                    print("Customer not found.")
            elif choice == "5":
               break
            else:
                print("Invalid choice. Please enter a valid option.")
    def vehicle management(self):
        vehicle service = VehicleService(self.db context)
        while True:
            print("\nVehicle Management:")
            print("1. Add Vehicle")
            print("2. Update Vehicle")
            print("3. Remove Vehicle")
            print("4. Get vehicle by ID")
            print("5. Go back")
            choice = input("Enter your choice: ")
            if choice == "1":
                model = input("Enter vehicle model: ")
                make = input("Enter vehicle make: ")
                year = input("Enter manufacturing year: ")
                color = input("Enter vehicle color: ")
                registration number = input("Enter registration number: ")
                availability = input("Is the vehicle available? (True/False): ")
                daily rate = input("Enter daily rental rate: ")
                vehicle data = (model, make, year, color, registration number,
availability, daily rate)
                vehicle service.add vehicle(vehicle data)
            elif choice == "2":
                vehicle id = input("Enter vehicle ID: ")
                model = input("Enter vehicle model: ")
```

```
make = input("Enter vehicle make: ")
                year = input("Enter manufacturing year: ")
                color = input("Enter vehicle color: ")
                registration number = input("Enter registration number: ")
                availability = input("Is the vehicle available? (True/False): ")
                daily rate = input("Enter daily rental rate: ")
                vehicle data = (model, make, year, color, registration number,
availability, daily rate, vehicle id)
                vehicle service.update vehicle (vehicle data)
            elif choice == "3":
                vehicle id = input("Enter vehicle ID: ")
                vehicle service.remove vehicle (vehicle id)
            elif choice == "4":
                vehicle id = input("Enter Vehicle ID: ")
                vehicle data = vehicle service.get vehicle by id(vehicle id)
                if vehicle data:
                    print("Vehicle Details:")
                    print(vehicle data)
                else:
                    print("Vehicle not found.")
            elif choice == "5":
                break
            else:
                print("Invalid choice. Please enter a valid option.")
    def reservation management(self):
        reservation service = ReservationService(self.db context)
        while True:
            print("\nReservation Management:")
            print("1. Create Reservation")
            print("2. Update Reservation")
            print("3. Cancel Reservation")
            print("4. Go back")
            choice = input("Enter your choice: ")
            if choice == "1":
                customer id = input("Enter customer ID: ")
                vehicle id = input("Enter vehicle ID: ")
                start date = input("Enter start date (YYYY-MM-DD): ")
                end date = input("Enter end date (YYYY-MM-DD): ")
                total cost = input("Enter total cost: ")
                status = input("Enter status(A/N): ")
                reservation data = (customer id, vehicle id, start date, end date,
total cost, status)
                reservation service.create reservation (reservation data)
                print("Reservation Created" if status == "A" else "Car not
available")
            elif choice == "2":
                reservation id = input("Enter reservation ID: ")
                customer id = input("Enter customer ID: ")
                vehicle id = input("Enter vehicle ID: ")
                start date = input("Enter start date (YYYY-MM-DD): ")
                end date = input("Enter end date (YYYY-MM-DD): ")
                total cost = input("Enter total cost: ")
                status = input("Enter status: ")
                reservation_data = (customer_id, vehicle_id, start date, end date,
total_cost, status, reservation id)
                reservation service.update reservation(reservation_data)
            elif choice == "3":
                reservation id = input("Enter reservation ID: ")
                reservation service.cancel reservation (reservation id)
            elif choice == \overline{4}":
                break
            else:
```

```
print("Invalid choice. Please enter a valid option.")
    def admin management(self):
        admin service = AdminService(self.db context)
        while True:
            print("\nAdmin Management:")
            print("1. Register Admin")
            print("2. Update Admin")
            print("3. Delete Admin")
            print("4. Go back")
            choice = input("Enter your choice: ")
            if choice == "1":
                first name = input("Enter first name: ")
                last name = input("Enter last name: ")
                email = input("Enter email: ")
                phone number = input("Enter phone number: ")
                username = input("Enter username: ")
                password = input("Enter password: ")
                role = input("Enter role: ")
                join date = input("Enter join date (YYYY-MM-DD): ")
                admin data = (first name, last name, email, phone number, username,
password, role, join date)
                admin service.register admin(admin data)
            elif choice == "2":
                admin id = input("Enter admin ID: ")
                first name = input("Enter first name: ")
                last name = input("Enter last name: ")
                email = input("Enter email: ")
                phone number = input("Enter phone number: ")
                username = input("Enter username: ")
                password = input("Enter password: ")
                role = input("Enter role: ")
                admin data = (first name, last name, email, phone number, username,
password, role, admin id)
                admin service.update admin(admin data)
            elif choice == "3":
                admin id = input("Enter admin ID: ")
                admin service.delete admin(admin id)
            elif choice == "4":
                break
            else:
                print("Invalid choice. Please enter a valid option.")
if name == " main ":
    car connect = CarConnect()
    car connect.run()
```