```
import java.util.Scanner;

public class UserInterface {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the Car Details");
        String input = sc.nextLine();

        CarInfo car = extractDetails(input);

        if (car == null) {
            System.out.println("Invalid Details");
            return;
        }

        String availability = car.checkAvailability();

        if (availability.equals("Not Available")) {
            System.out.println("Invalid Details");
        } else {
            System.out.println("Car Id : " + car.getCarId());
            System.out.println("Car Name : " + car.getCarName());
            System.out.println("Car Type : " + car.getCarType());
            System.out.println("City : " + car.getCity());
            System.out.println(availability);
        }
    }

    public static CarInfo extractDetails(String carDetails) {
        String[] parts = carDetails.split(":");
```

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        if (parts.length != 4) {
            return null;
        }
        return new CarInfo(parts[0], parts[1], parts[2], parts[3]);
    }
}

class CarInfo {
    private String carId;
    private String carName;
    private String carType;
    private String city;

    public CarInfo(String carId, String carName, String carType, String city) {
        this.carId = carId;
        this.carName = carName;
        this.carType = carType;
        this.city = city;
    }

    public String getCarId() {
        return carId;
    }

    public String getCarName() {
        return carName;
    }

    public String getCarType() {
        return carType;
    }
```

```
public String getCity() {
    return city;
}

public String checkAvailability() {
    String[] validNames = {"Nissan", "Ford"};
    String[] validCities = {"Newyork", "denver", "losangels"};
    String[] validTypes = {"Sedan", "SUV", "MUV"};

    boolean validName = false, validCity = false, validType = false;

    for (String name : validNames) {
        if (carName.equalsIgnoreCase(name)) {
            validName = true;
            break;
        }
    }
    for (String ct : validTypes) {
        if (carType.equalsIgnoreCase(ct)) {
            validType = true;
            break;
        }
    }
    for (String c : validCities) {
        if (city.equalsIgnoreCase(c)) {
            validCity = true;
            break;
        }
    }
```

```
        if (!validName || !validType || !validCity) {
            return "Not Available";
        }

        String availableCar = "";
        double price = 0.0;
if (carName.equalsIgnoreCase("Nissan")) {
    switch (carType.toLowerCase()) {
        case "sedan":
            availableCar = "Kicks";
            price = 8400.0;
            break;
        case "suv":
            availableCar = "Magnite";
            price = 10800.0;
            break;
        case "muv":
            availableCar = "Terrano";
            price = 14400.0;
            break;
    }
} else if (carName.equalsIgnoreCase("Ford")) {
    switch (carType.toLowerCase()) {
        case "sedan":
            availableCar = "Figo";
            price = 4802.0;
            break;
        case "suv":
            availableCar = "Eco Sport";
            price = 9605.0;
            break;
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        case "muv":
            availableCar = "Endeavour";
            price = 21600.0;
            break;
    }
}



        return "Available car and price is: " + availableCar + " and $" + price;
    }
}
```