

Car Customiza,on System

Design a system to customize Car Models using the Builder Design Pa8ern. Each car configura<on should include:

- 1. Model Name: (e.g., "Tesla Model 3", "Ford Mustang")
- 2. Engine Type: (e.g., Electric, Petrol, Diesel, Hybrid)
- 3. Color: (e.g., Red, Blue, Black)
- 4. Transmission: (e.g., Automa<c, Manual)
- 5. Sunroof: (Yes/No)
- 6. Infotainment System: (Yes/No)

Use builder pa8ern to create two types of car Default Car or Customized Car according to configura<on below:

<p>Default Car:</p> <ul style="list-style-type: none">- Model Name: Default Model- Engine Type: Petrol- Color: White- Transmission: Manual- Sunroof: No- Infotainment System: No	<p>Customized Car:</p> <ul style="list-style-type: none">- Model Name: Tesla Model 3- Engine Type: Electric- Color: Midnight Silver- Transmission: Automa<c- Sunroof: Yes- Infotainment System: Yes
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Example Use:

```
public class Main {  
    public static void main(String[] args) {  
  
        Car defaultCar = new CarBuilder().build();  
        System.out.println("Default Car Configuration:\n" + defaultCar);  
  
        Car customCar = new CarBuilder()  
            .setModelName("Tesla Model 3")  
            .setEngineType("Electric")  
            .setColor("Red")  
            .setTransmission("Automatic")  
            .setSunroof(true)  
            .setInfotainmentSystem(true)  
            .build();  
        System.out.println("Customized Car Configuration:\n" + customCar);  
    }  
}
```