

OBJECT ORIENTED DESIGN PATTERNS 2

EX-03

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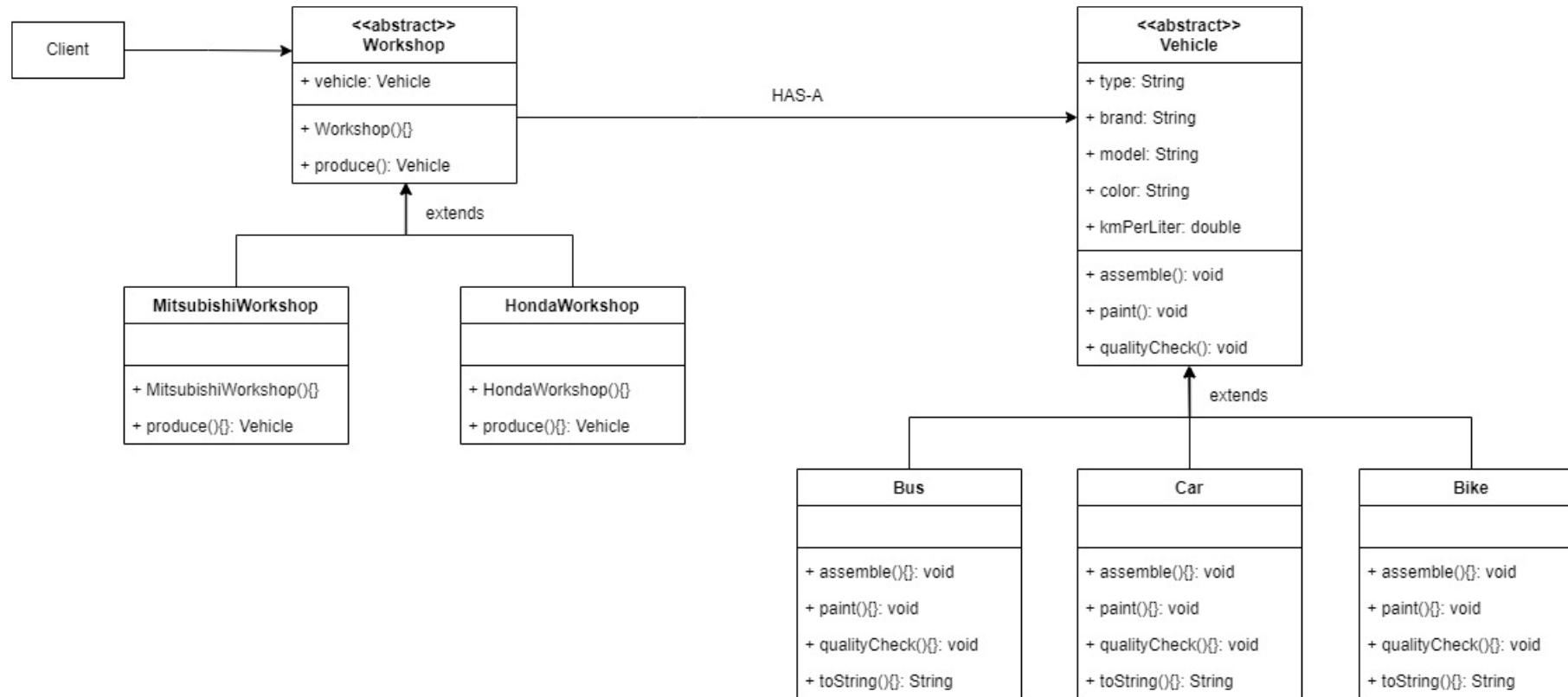
Bridge Design Pattern

- ▶ Bridge is used when we need to decouple an abstraction from its implementation so that the two can vary independently.
- ▶ This type of design pattern comes under structural pattern as this pattern decouples implementation class and abstract class by providing a bridge structure between them.
- ▶ The Pattern allows you to vary the implementation and the abstraction by placing the two in separate class hierarchies.

Scenario

- ▶ NDH PVT LTD is a world-famous vehicle manufacturing company. They manufacture different types of vehicles such as cars, buses, and bikes. The company uses workshops for each process of producing, assembling, painting, and quality checking for vehicles. Vehicles and workshops are separate from each other. We can freely change them and define new ones if required.
- ▶ So here, I had to develop a program using the bridge design pattern for manufacturing the vehicles according to the given scenario.

UML Diagram





Let's go to see the Demo