

Java interfaces

Similar to classes, but they does not contain any method implementations. An interface can extend other interfaces. Vehicle is a general interface, Car extends from a Vehicle it has more specific functions, similar to Motorcycle.

Vehicle.java

```
public interface Vehicle
{
    public void hasWheels();
    public void hasEngine();
}
```

Car.java

```
public interface Car extends Vehicle
{
    public void hasDoors();
    public void hasAirbags();
    public void hasRoof();
}
```

Motorcycle.java

```
public interface Motorcycle extends Vehicle
{
    public void hasPedal();
    public void hasHandlebars();
    public void hasStand();
}
```

Exercise 1.

- Create a BMW class which implements Car interface.
- Create a Skoda class implements car interface.

```
public class TryItOut {
    public static void main(String[] args) {
        // creating a car array with 10 elements
        Car car[] = new Car[10];
        // create Skodas and BMWs (depending on the i-th index)
        for(int i=0; i < 10; i++) {
            if(i%2 == 0) {
                car[i] = new Skoda();
            } else {
                car[i] = new BMW();
            }
        }
        // call hasAirbags() method on each instance
    }
}
```

```
    for(int i=0; i < 10; i++) {  
        car[i].hasAirbags();  
    }  
}  
}
```

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