**//car.java**

**package** carPrototype;

**public** **class** Car{

**private** String model;

**private** String name;

**private** String colour;

**private** **int** mileage;

**public** **int** getMileage() {

**return** mileage;

}

**public** **void** setMileage(**int** mileage) {

**this**.mileage = mileage;

}

**public** String getModel() {

**return** model;

}

**public** **void** setModel(String model) {

**this**.model = model;

}

**public** **void** setColour(String colour){

**this**.colour=colour;

}

**public** String getColour() {

**return** colour;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String toString() {

**return** "\nCar [ " + "model = " + model + ", name = " +

name + ", colour = " + colour + ", mileage = " + mileage + " ] ";

}

}

**//ShopCar.java**

**package** carPrototype;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** ShopCar {

**private** String shopCar;

List < Car > car = **new** ArrayList < Car > ();

**public** String getShopCar() {

**return** shopCar;

}

**public** **void** setShopCar(String shopCar) {

**this**.shopCar = shopCar;

}

**public** List<Car> getCar() {

**return** car;

}

**public** **void** setCar(List<Car> car) {

**this**.car = car;

}

**public** **void** loadData() {

**for** (**int** i = 1; i <= 5; i++) {

Car c = **new** Car();

c.setName("Car "+ i);

c.setModel("Car Model " + (i^3-3));

c.setMileage(20 + i^2);

**if**(i%2==0)

c.setColour("Mystic White");

**else**

c.setColour("Deep Black");

getCar().add(c);

}

}

@Override

**public** String toString() {

**return** "CarShop { " + "shopCar = " + shopCar + ", car = " +

car + " } ";

}

@Override

**protected** ShopCar clone() **throws** CloneNotSupportedException {

ShopCar shop = **new** ShopCar();

**for** (Car c: **this**.getCar()) {

shop.getCar().add(c);

}

**return** shop;

}

}



