**. Create a base class Vehicle with a method getMaxSpeed(). Subclasses Car, Bike, and Truck override the method to return specific speed limits. Use an array of Vehicle references to invoke the method dynamically.**

class Vehicle {

int getMaxSpeed() {

return 0; // Default speed

}

}

class Car extends Vehicle {

int getMaxSpeed() {

return 180; // Max speed for Car

}

}

class Bike extends Vehicle {

int getMaxSpeed() {

return 120; // Max speed for Bike

}

}

class Truck extends Vehicle {

int getMaxSpeed() {

return 80; // Max speed for Truck

}

}

public class VehicleTest {

public static void main(String[] args) {

Vehicle[] vehicles = {

new Car(), new Bike(), new Truck() };

for (Vehicle v : vehicles) {

System.out.println("Max speed: " + v.getMaxSpeed() + " km/h");

}

}

}