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Develop simple java and JS based program to show is-a, has-a, uses-a relationship
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Java:
 class Transport {
  String category;
  Transport(String category) {
    this.category = category;
  }
  void displayDetails() {
    System.out.println("Category: " + this.category);
  }
}
class Automobile extends Transport {
  String make;
  Automobile(String category, String make) {
    super(category);
    this.make = make;
  }
  void displayDetails() {
    super.displayDetails();
    System.out.println("Make: " + this.make);
  }
}
class ParkingLot {
  Transport[] vehicles;
  ParkingLot(Transport[] vehicles) {
    this.vehicles = vehicles;
  }
  void displayAllVehicles() {
    System.out.println("All Vehicles in Parking Lot:");
    for (Transport vehicle: vehicles) {
      vehicle.displayDetails();
    }
  }
}
class RepairTech {
  ParkingLot lot;
  RepairTech(ParkingLot lot) {
    this.lot = lot;
  }
  void repairTransport(String category) {
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for (Transport vehicle : lot.vehicles) {
      if (vehicle.category.equals(category)) {
        System.out.println("Vehicle of category " + category + " repaired.");
      }
    }
    System.out.println("No vehicle of category " + category + " found in the parking lot.");
  }
}
public class Main {
  public static void main(String[] args) {
    Transport car1 = new Automobile("Car", "Toyota");
    Transport car2 = new Automobile("Car", "Honda");
    Transport bike1 = new Transport("Bike");
    Transport[] vehicles = {car1, car2, bike1};
    ParkingLot parkingLot = new ParkingLot(vehicles);
    RepairTech repairTech = new RepairTech(parkingLot);
    parkingLot.displayAllVehicles();
    repairTech.repairTransport("Car");
    repairTech.repairTransport("Truck");
  }
}
 Java script
 class Vehicle {
   constructor(type) {
     this.type = type;
   }
   displayInfo() {
     console.log("Type: " + this.type);
   }
 }
 class Car extends Vehicle {
   constructor(type, brand) {
     super(type);
     this.brand = brand;
   }
   displayInfo() {
     super.displayInfo();
```

System.out.println("Repairing vehicle of category: " + category);

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console.log("Brand: " + this.brand);
}

class Garage {
  constructor(vehicles) {
    this.vehicles = vehicles;
  }
  displayAllVehicles() {
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console.log("All Vehicles in Garage:");
    this.vehicles.forEach(vehicle => {
      vehicle.displayInfo();
    });
  }
}
class Mechanic {
  constructor(garage) {
    this.garage = garage;
  }
  repairVehicle(type) {
    console.log("Repairing vehicle of type: " + type);
    for (let vehicle of this.garage.vehicles) {
      if (vehicle.type === type) {
         console.log("Vehicle of type " + type + " repaired.");
         return;
      }
    }
    console.log("No vehicle of type " + type + " found in the garage.");
  }
}
const main = () => {
  const car1 = new Car("Car", "Toyota");
  const car2 = new Car("Car", "Honda");
  const bike1 = new Vehicle("Bike");
  const vehicles = [car1, car2, bike1];
  const garage = new Garage(vehicles);
  const mechanic = new Mechanic(garage);
  garage.displayAllVehicles();
```

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mechanic.repairVehicle("Car");
mechanic.repairVehicle("Truck");
};
main();
```