```
Develop simple java and JS based program to show is-a, has-a, uses-a relationship
class Vehicle {
  String type;
  Vehicle(String type) {
    this.type = type;
  }
  void displayInfo() {
    System.out.println("Type: " + this.type);
  }
}
class Car extends Vehicle {
  String brand;
  Car(String type, String brand) {
    super(type);
    this.brand = brand;
  }
  void displayInfo() {
    super.displayInfo();
    System.out.println("Brand: " + this.brand);
  }
}
class Garage {
  Vehicle[] vehicles;
  Garage(Vehicle[] vehicles) {
    this.vehicles = vehicles;
  }
  void displayAllVehicles() {
    System.out.println("All Vehicles in Garage:");
    for (Vehicle vehicle: vehicles) {
```

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vehicle.displayInfo();
    }
  }
}
class Mechanic {
  Garage garage;
  Mechanic(Garage garage) {
    this.garage = garage;
  }
  void repairVehicle(String type) {
    System.out.println("Repairing vehicle of type: " + type);
    for (Vehicle vehicle: garage.vehicles) {
      if (vehicle.type.equals(type)) {
         System.out.println("Vehicle of type " + type + " repaired.");
         return;
      }
    }
    System.out.println("No vehicle of type " + type + " found in the garage.");
  }
}
public class Main {
  public static void main(String[] args) {
    Vehicle car1 = new Car("Car", "Toyota");
    Vehicle car2 = new Car("Car", "Honda");
    Vehicle bike1 = new Vehicle("Bike");
    Vehicle[] vehicles = {car1, car2, bike1};
    Garage garage = new Garage(vehicles);
    Mechanic mechanic = new Mechanic(garage);
    garage.displayAllVehicles();
```

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mechanic.repairVehicle("Car");
    mechanic.repairVehicle("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();
    console.log("Brand: " + this.brand);
  }
}
class Garage {
  constructor(vehicles) {
    this.vehicles = vehicles;
  }
  displayAllVehicles() {
```

```
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();
```

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