public class Product {

private String name;

private double price;

private String category;

public Product(String name, double price, String category) {

this.name = name;

this.price = price;

this.category = category;

}

// Getters and setters (if needed)

public String getName() { return name; }

public double getPrice() { return price; }

public String getCategory() { return category; }

@Override

public String toString() {

return "Product{name='" + name + "', price=" + price + ", category='" + category + "'}";

}

}

import com.github.javafaker.Faker;

import java.util.Random;

public class ProductFactory {

private static final Faker faker = new Faker();

private static final String[] categories = {"Electronics", "Clothing", "Home", "Books", "Toys"};

public static Product createFakeProduct() {

String name = faker.commerce().productName();

double price = Double.parseDouble(faker.commerce().price().replace(",", "."));

String category = categories[new Random().nextInt(categories.length)];

return new Product(name, price, category);

}

}

import java.util.ArrayList;

import java.util.List;

public class Main {

public static void main(String[] args) {

List<Product> fakeProducts = new ArrayList<>();

// Generate 10 fake products

for (int i = 0; i < 10; i++) {

fakeProducts.add(ProductFactory.createFakeProduct());

}

// Print out the fake products

fakeProducts.forEach(System.out::println);

}