

Category
-name: String
+getName() : String; +setName(name: String):void;

Product
-name:String -quantity:int -category:Category -price:float
+getName():String; +setName(name:String):void; +getQuantity():int; +setQuantity(quantity:int):void; +getCategory():Category; +setCategory(category:Category):void; +getPrice():float; +setPrice(price:float):void;

Main
+main(args: String[]):void;

ShopService
-categories: Category[] -products: Product[] -numberOfCategories -numberOfProducts -categoriesCapacity -productsCapacity
+getProductsCapacity():int; +setProductsCapacity(productsCapacity:int):void; +getCategoriesCapacity():int; +setCategoriesCapacity(categoriesCapacity:int):void; +getCategories():Category[]; +setCategories(categories Category[]):void; +getProducts():Product[]; +setProducts(products Product[]):void; +getNumberOfCategories():int; +setNumberOfCategories(numberOfCategories:int):void; +getNumberOfProducts():int; +setNumberOfProducts(numberOfProducts:int):void; +addNewCategory(category:Category):void; +addNewProduct(product: Product):void; +displayAllTheProducts():void; +displayAllTheCategories():void; +displayAllTheProductsFromACategory(nameOfTheCategory:String):void; +searchAProductByName(nameOfTheProduct:String):void;