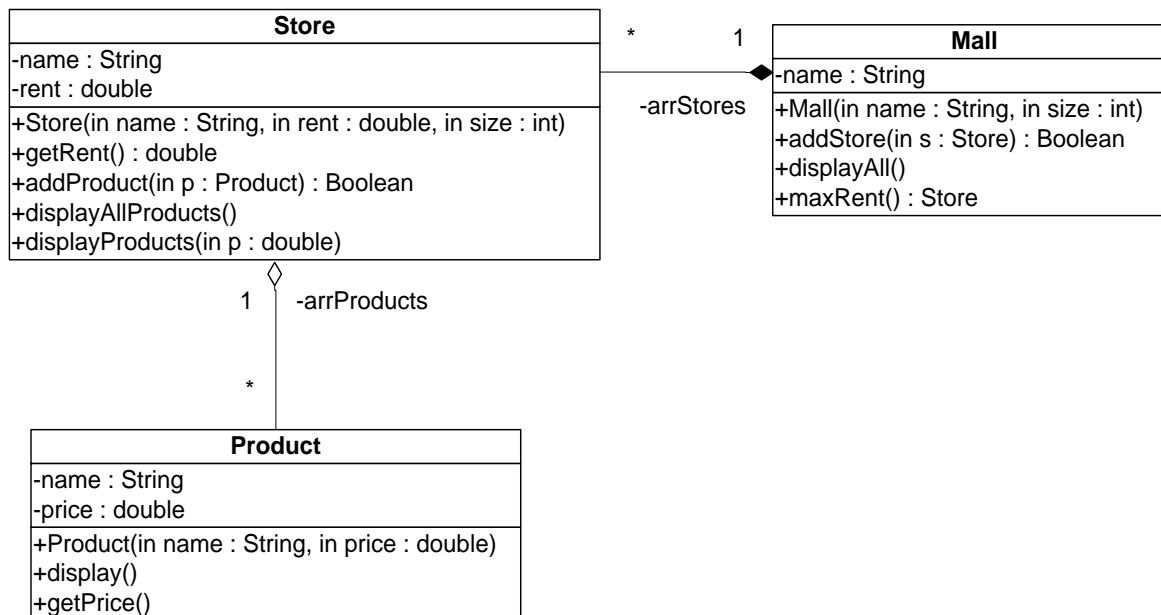


KSU/CCIS/CS	CSC 113	Lab - Aggregation & Composition
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Exercise 1



Product Class:

- Attributes:
 - **name**: the name of the product.
 - **price**: the selling price of the product.
- Methods:
 - **Product(name: string, price: double)**: constructor
 - **display()**: this method displays all the attributes of the product.
 - **getPrice()**: this method returns the price of the item.

Store class

- Attributes:
 - **name**: the name of the store.
 - **rent**: the annual rent of the store.
- Methods:
 - **Store(name: string, rent: double, size: int)**: constructor.
 - **getRent()**: this method returns the annual rent of the store.
 - **addProduct(p: Product)**: this method adds a product to the store. It returns true if the **Product p** is added; false otherwise.
 - **displayAllProducts()**: this method displays all the products of the store.

- ***displayProducts(p : double)***: this method receives a price *p* as parameter and displays all the products having this price.

Mall class

- Attributes:
 - ***name***: the name of the shopping mall.
- Methods:
 - ***Mall(name: string, size: int)***: constructor.
 - ***addStore(s: Store)***: this method adds the *Store* object *s* to the mall. It returns true if the *Store* *s* is added; false otherwise.
 - ***displayAll()***: this method displays the products of all the stores in the mall.
 - ***maxRent()***: this method returns the store with the highest annual rent.

QUESTION: Translate into Java code the class ***Product***, the class ***Store*** and the class ***Mall***.

Exercise 2

Write a class ***Application*** that contains a ***main()*** method to do the following statements in the given order:

- Create a ***Store*** object **S1 (name is “Aldo”, rent is 125450)** that contains 2 products.
 - Product 1: name: “Boot”, price: 250.0
 - Product 2: name: “Slipper”, price: 150.0
- Create a ***Store*** object **S2 (name is “Adidas”, rent is 225000)** that contains 3 products.
 - Product 1: name: “T-Shirt”, price: 150.0
 - Product 2: name: “Hat”, price: 50.0
 - Product 3: name: “Basket ball”, price: 350.0
- Create a ***Mall*** object **M (name is “Panorama”)** that contains 15 stores:
- Add the Stores **S1** and **S2** to the mall **M**.
- Display the products of the store of the mall **M** having the highest annual rent.