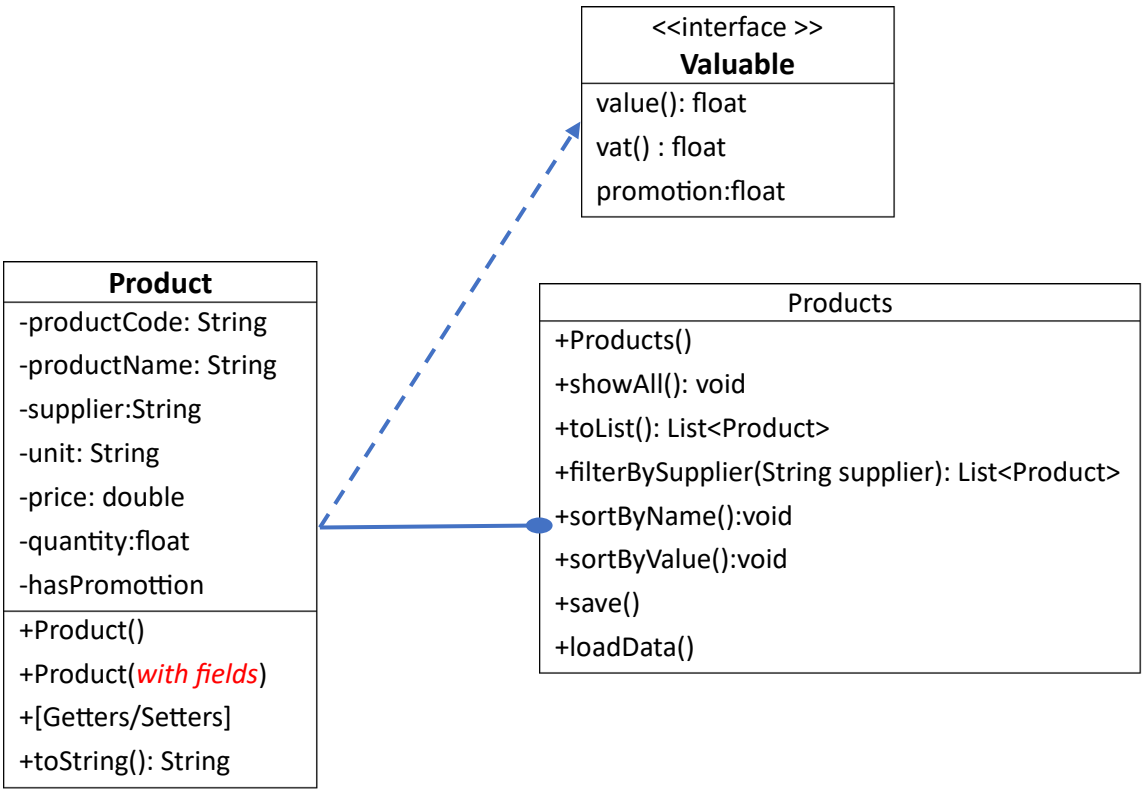
Practice:: HashMap – Inheritance – Interface



1 – Add product information

2 – Show all products

3 – Delete a product

4 – Filter products by SUPPLIER

5 – Sort and display product

5.1 – Sort by name (ASC)

5.2- Sort by value (DES)

6 – Statistics the products by SUPPLIER

7 – Save data to file

8 – Load data from file

9 – Exit program

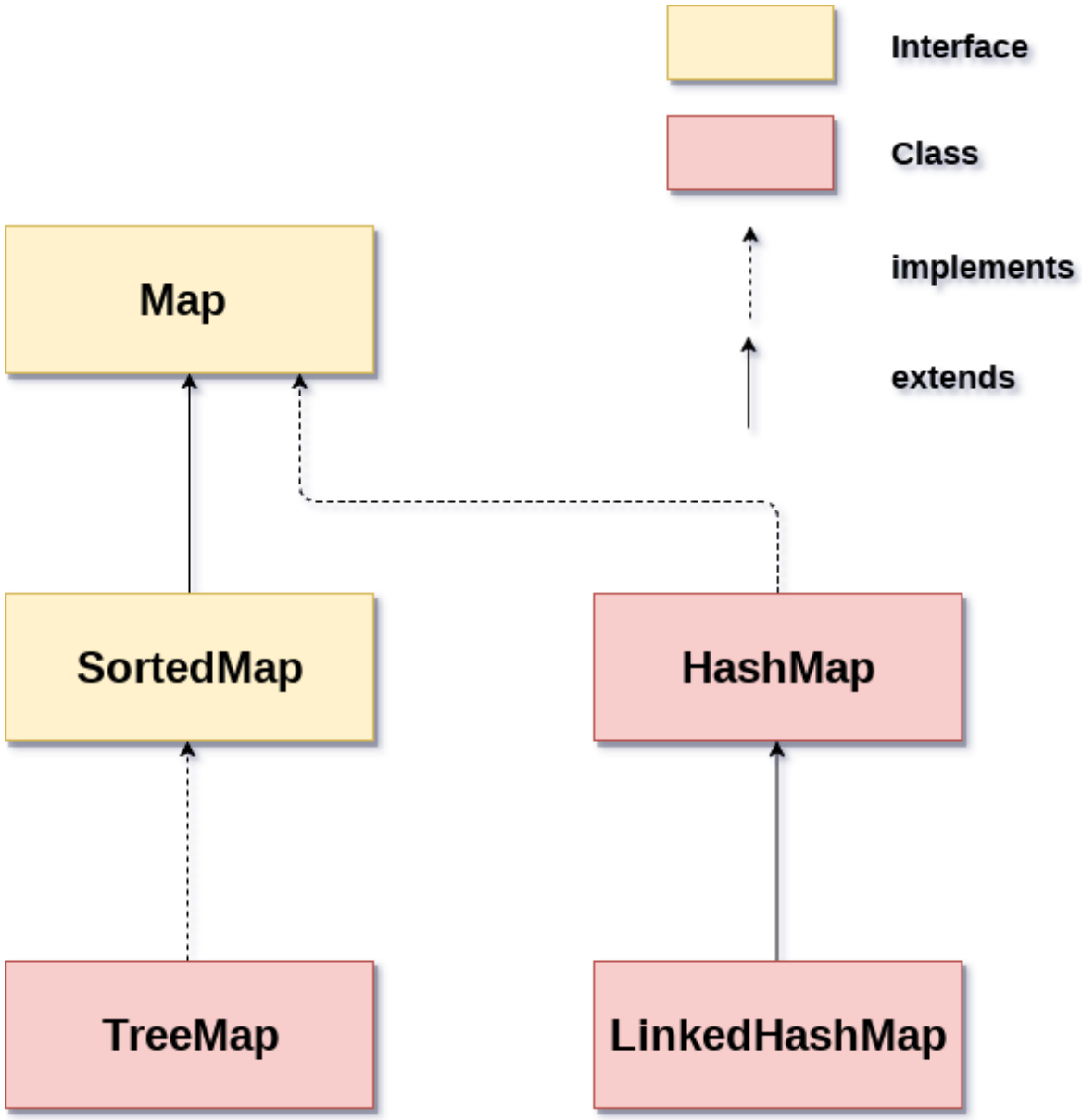
Pay attention:

- Value method is price times quantity
- Vat = 8% value of the product:
- Promotion method is calculated by 15% of the value if the field haPromotion is true

Useful methods of Map interface

Method	Description
V **put**(Object key, Object value)	It is used to insert an entry in the map.
void **putAll**(Map map)	It is used to insert the specified map in the map.
V **putIfAbsent**(K key, V value)	It inserts the specified value with the specified key in the map only if it is not already specified.
V **remove**(Object key)	It is used to delete an entry for the specified key.
boolean **remove**(Object key, Object value)	It removes the specified values with the associated specified keys from the map.
Set **keySet**()	It returns the Set view containing all the keys.
V **get**(Object key)	This method returns the object that contains the value associated with the key.
Collection **values**()	It returns a collection view of the values contained in the map.
boolean **containsKey**(Object key)	This method returns true if some key equal to the key exists within the map, else return false.
boolean **containsValue**(Object value)	This method returns true if some value equal to the value exists within the map, else return false.
boolean **isEmpty**()	This method returns true if the map is empty; returns false if it contains at least one key.
V **replace**(K key, V value)	It replaces the specified value for a specified key.
void **clear**()	It is used to reset the map.
int **size**()	This method returns the number of entries in the map.

https://docs.oracle.com/javase/8/docs/api/java/util/HashMap.html


Interface
Class
implements
extends
Map
SortedMap
HashMap
TreeMap
LinkedHashMap