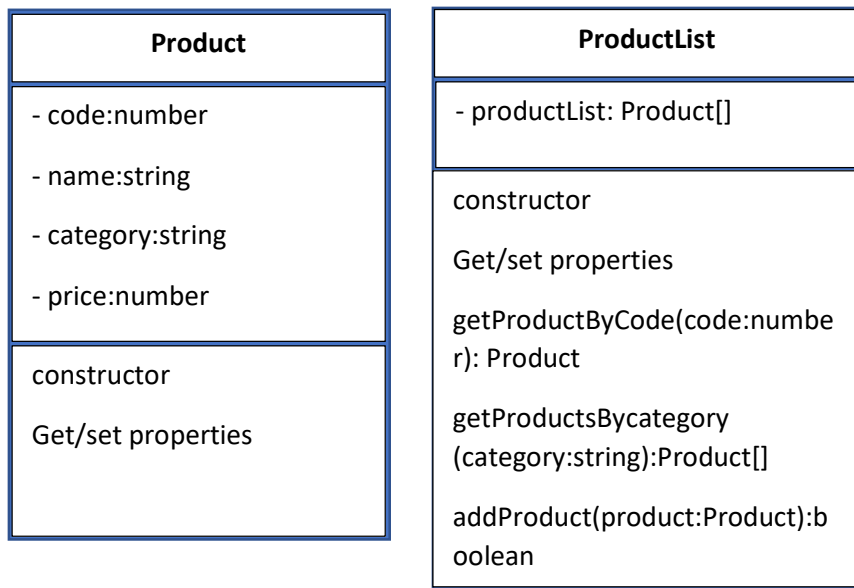# Assign 01

Due Date and time: 02/22/2022 11:00 am   **Total points: 10**

Create an angular application "Assign 01" using angular-cli tool. Using visual studio code or any other editor of your choice, create two model classes (Product.ts, ProductList.ts) in the src/modules folder the angular application. Implement both classes using following class diagram.

Product
- code:number
- name:string
- category:string
- price:number
constructor
Get/set properties

ProductList
- productList: Product[]
constructor
Get/set properties
getProductByCode(code:number): Product
getProductsBycategory (category:string):Product[]
addProduct(product:Product):boolean

Initialize array of products with at least 5 products in the ProductList class's constructor.

code	name	category	price
100	Cap	Winter wear	200
200	Jacket	Winter wear	1000
300	Coat	Winter wear	2050
400	Gloves	Winter wear	350
500	Book	Books	150

Demonstrate the code of the application in the main.ts file.

1. Create an object of ProductList class.
2. Call getProductByCode() with 200 product code argument and print the results on the console.
3. Call getProductsBycategory () with 'Winter wear' argument and print the returned array on the console.

4. Create a new Product and call addProduct () and print the updated product list on the console. There should be 6 products now in the list. We are assuming that a product created with unique code will be passed to this method.

Deliverable:

1. A zip file of 3 typescript files - Product.ts, ProductList.ts, main.ts

Submission:

1. Online to Canvas submission folder "Assign 01".

Note: Use ES 6 imports/exports in this assignment to manage multiple typescript files. Use of fat arrow functions is encouraged. Follow naming conventions and use descriptive names for variables, methods etc. Document your code by adding comments.