- Object Oriented Programming
- Encapsulation
- Inheritance
- Abstraction
- Polymorphism

VN Department Store

VN Department Store is a famous department store in Indonesia that sells several products, such as clothes, food, and electronics. You, as a Junior Java Developer, are asked to **build an application** for the department store with **Object Oriented Programming** concepts. You are assigned to make a program that **follows some requirements** below:

- The program consists of **4 menus**. They are:
    1. Add Product
    2. View Products
    3. Remove Product
    4. Exit

```
VN Department Store Product Management
=====================================
1. Add Product
2. View Products
3. Remove Product
4. Exit
>>
```

- **Menu 1 (Add Product)**
    - Ask user to input **Product Name** and validate that the name must be **between 5 and 20 characters**.
    - Ask user to input **Product Price** and validate that the price must be **between 20000 and 5000000**.

- Ask user to input **Product Category** and validate that the category must be **between Clothing**, **Food**, and **Electronic** (**case insensitive**).
- If category is **Clothing**, ask user to input Product Size and validate that the size must be **between Small**, **Medium**, **Large**, and **Extra Large** (**case sensitive**).
- If category is **Food**, ask user to input **Product Expiration Year** and validate that the year must be b**etween 2023 and 2028**.
- If category is **Electronic**, ask user to input **Product Brand** and validate that the brand must be **between 2 and 10 characters**.
- After user input all data, **add product** to the **product list**.

```
Add Product
=====================================
Input product name [5 - 20 characters]: hood
Input product name [5 - 20 characters]: Hoodie
Input product name [20000 - 5000000]: 10000
Input product name [20000 - 5000000]: 50000000
Input product name [20000 - 5000000]: 500000
Input product name [Clothing | Food | Electronic] (case insensitive): Clothing
Input product size [Small | Medium | Large | Extra Large] (case sensitive): small
Input product size [Small | Medium | Large | Extra Large] (case sensitive): med
Input product size [Small | Medium | Large | Extra Large] (case sensitive): Small
Successfully added new clothing
Press enter to continue...
```

- **Menu 2** (**View Products**)
  - If there is **no products** in the **product list**, print "**There is no product data**".

```
There is no product in the list
Press enter to continue...
```

  - Otherwise, **show all product data**.

```
View Product
=====================================
No                : 1
Name              : Hoodie
Price             : 500000
Category          : Clothing
Size              : Small
=====================================
No                : 2
Name              : Curry
Price             : 50000
Category          : Food
Expiration Year   : 2025
=====================================
No                : 3
Name              : Television
Price             : 3000000
Category          : Electronics
Brand             : Samsong
=====================================
Press enter to continue...
```

- **Menu 3** (**Remove Product**)
  - If there is **no products** in the **product list**, print "**There is no product data**".

```
There is no product in the list
Press enter to continue...
```

  - Otherwise, **show all product data**.
  - Ask user to input the **Product No**.
  - If the **Product No** doesn't exist, print the **Product No user inputted wasn't found** and **redirect user back to the main menu**.

```
Delete Product
======================================
No               : 1
Name             : Hoodie
Price            : 500000
Category         : Clothing
Size             : Small
======================================
No               : 2
Name             : Curry
Price            : 50000
Category         : Food
Expiration Year  : 2025
======================================
No               : 3
Name             : Television
Price            : 3000000
Category         : Electronics
Brand            : Samsong
======================================
Input product no you want to delete [1 - 3]: 5
There is no product no 5
Press enter to continue...
```

- Otherwise, **remove** the product with the **inputted number** from the **product list**.

```
Size             : Small
======================================
No               : 2
Name             : Curry
Price            : 50000
Category         : Food
Expiration Year  : 2025
======================================
No               : 3
Name             : Television
Price            : 3000000
Category         : Electronics
Brand            : Samsong
======================================
Input product no you want to delete [1 - 3]: 2
Product Curry successfully deleted
Press enter to continue...
```

- **Menu 4** (**Exit**)
  - **Display** the following message and **stop** the program.

```
Thankyou for using our program...
Have a nice day! :D
```