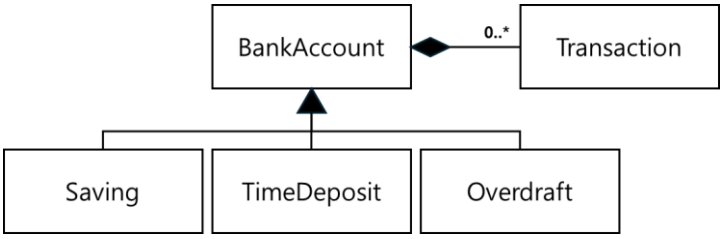
Assignment 2

2025. 06. 24

❑ Problem

Make three subclasses inherited in a superclass, *bank account*. The class diagram presenting the relationship among them as follows:



The class, *bankaccount* contains the same attributes and methods that are implemented in assignment #1. Each subclass contains attributes that explain their characteristics.

For example, the saving account can contain the following attributes;

- Input Monthly Amount
- Expiration Date
- Interest Rate

The time deposit account can contain the following attributes;

- Input Amount
- Expiration Date
- Interest Rate

The overdrift account can contain the following attributes;

- Maximum Excess Amount
- Interest Rate for Excess Amount

Attributes can be added including them. Moreover, the subclasses contain the specific methods expressing their characteristics.

The transaction class contains a record information for a deposit / withdrawal information for the class. The bank account class contains all occurred transactions.

❑ Assessment Points

- Inherit
- Superclass and Subclass
- Method Overriding
- Composition Relationship in Class Diagram
- Storing Ordered Data

- **Development Environment**
  - Language: Python 3.11
    Please make the other environment for assignments.
  - Library
    There are no determined libraries.

- **Request**
  - Avoid using generative AI systems(chat-bot) when you make the method for solving this assignment.
    - However, it's welcome to find the specific methods or the usage of the methods. Because this assignment is to know how to solve the problem and your problem-solving style, please provide all your own results.
    - You can submit multiple results if you make multiple solutions.
  - Put the following comment for providing the code information in front of the code.

```
"""
File Name: {*.py File Name}
Created Date: {Today's Date}
Programmer: {Full Name for the Code developer}
Description: {Information of This code}
"""
```

- **Submission**
  - Add comments to lines that contain the significant and important function for this assignment.
    - If you have events occurred while finding the solution, please write all methods.
  - Make the document containing the following information.
    - Trial Records during solving the problems
    - Output Screen Dump
  - Upload *.py file with the results to the github;
    - https://github.com/MyeongHo-Song/Assignments_gj
  - Due Date is the end of this week (30th Jun.)
    If you need more time, you can request it before 26th Jun. noon.