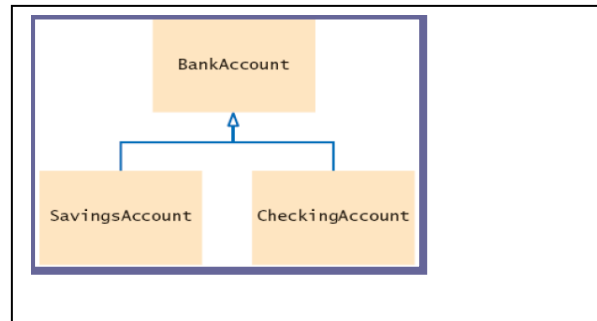


Lab 5_final

1. Create a hierarchy as follows

Checking account: no interest; small number of free transactions per month, additional transactions are charged a small fee

Savings account: earns interest that compounds monthly



- **Constructor:** Should call the BankAccount constructor.

Which will accept a double value for balance, name and address.

For SavingsAccount accept rate of interest.

- **Fields:**

SavingsAccount : interestRate

CheckingAccount: transactionCount

- **Methods:**

CheckingAccount

- a) Modify the methods to increase transactionCount
- b) deductFees: to deduct fees and reset transactionCount.

SavingsAccount

- a) methods addInterest

2. Install ArgoUML on your laptops

3. Create a class **FDAccount** as follows
FDAccount is a subclass of BankAccount.

FDAccount:

- Variable interest based on term for which invested (6% for upto 12 months, 7% for 12-36 months) and 8% for > 36 months;
- No transactions of withdrawal type allowed
- Only once deposit/transfer (into the account not out of the account) is allowed.
- **Constructor**: Should call the BankAccount constructor.

Which will accept a double value for balance, name and address.

- Methods should also call the BankAccount methods wherever possible.
4. Use ArgoUML to generate a detailed Class diagram of the BankAccounts hierarchy .