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Assignment 2: Bank Account

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Design

**Pseudo code:**

BankDriver class:

1. Inputing transactions one by one.

2. Evaluate each transaction and discard if error occurs in transactions.

3. Process and parse transactions and report error or output succeed feedback.

Transaction class:

1. Parse input and evaluate each token for validity.

2. If error found report is.

3. If no error found save the information for processing the transaction.

BankDirectory class:

1. Checks to see if the specified customer exists.

2. If doesn't exist and transaction is deposit, will create an account and process the deposit.

3. If customer doesn't exist and transaction is not a deposit, will report an error.

4. If customer exist and account doesn't exist, will report an error.

5. If account also exist, will process the transaction and send feedback.

6. Contains a list of all customers.

BankAccount class and its children (i.e. CheckingAccount, SavingAccount, etc.):

1. Contains the information about the account.

2. processes deposit, withdraw and calculate interest.

Customer class:

1. Contains information about the customer.

**Block Diagram:**

