Class Diagram

has >

Customer - - -▷ AccountOperations   SavingsAccount

- - -▷ EmployeeOperations

has >   Employee   Account

has >   Bank - - -▷ CustomerOperations   FixedAccount

ITransactions

ITransactions

void deposit(double amount)
void withdraw(double amount)
void transfer(Account a, double amount)

AccountOperations

void insertAccount(Account a)
Account getAccount(int accountNumber)
void showAllAccounts( )

CustomerOperations

void insertCustomer(Customer c)
Customer getCustomer(int nid)
void showAllCustomers( )

EmployeeOperations

void insertEmployee(Employee e)
Employee getEmployee(int empId)
void showAllEmployees( )

Account

int accountNumber
double balance

void setAccountNumber(int accountNumber)
void setBalance(double balance)
int getAccountNumber( )
double getBalance( )
abstract void showInfo( )

Customer

String name
int nid
Account accounts[ ]

void setName(String name)
void setNid(int nid)
String getName( )
int getNid( )

Employee

String name
String empId
double salary

void setName(String name)
void setNid(int nid)
void setSalary(double salary)
String getName( )
int getNid( )
double getSalary( )

FixedAccount

int tenureYear

void setTenureYear(int tenureYear)
int getTenureYear( )

SavingsAccount

double interestRate

void setInterestRate(double interestRate)
double getInterestRate( )

Bank

Customer customers[ ]
Employee employees[ ]

Start

The **Start** class contains the main method. Inside the main method the application prompts the user to choose among the following options:

1. Employee Management
2. Customer Management
3. Customer Account Management
4. Account Transactions
5. Exit

Upon choosing any of the option the user is given some further options to choose from:

Options for Employee Management:

    1. Insert New Employee   2. Get Existing Employee by Id   3. Show All Employees

Options for Customer Management:

    1. Insert New Customer   2. Get Existing Customer by Id   3. Show All Customer

Options for Customer Account Management:

    1. Insert New Account   2. Get Existing Account by Id   3. Show All Accounts

Options for Employee Management:

    1. Deposit Money   2. Withdraw Money   3. Transfer Money

The application will prompt the user to give input for the necessary values as per the choice. The application will repeatedly go on according to the user choices.

Submission Guideline:

1. Last date of submission is 18-April-2020