

# Bank Project V1.1

## Used functionalities

- Interface
- Enumeration
- Exception, try/catch
- Abstract types (E)
- User interaction (console)

## Description

- We manage a bank where customers have accounts.
- They can create an account, add money on it and get money out.
- They can as well transfer money to another account
- All the operations can be performed either in the bank or online

## Implementation

Create an interface BankOperations which has the following methods:

- a. void transfer (double amount, Account fromAccount, Account toAccount)
- b. void withdraw (double amount, Account fromAccount)
- c. void deposit(double amount, Account toAccount)

## Implements the interface in the objects Bancomat and EBanking

- In the bancomat the identity is tested with a pin code (int) and in ebanking with a password (String)
- There is only one Bank, which contain 1 Bancomat and 1 Ebanking

## For each operation

- Check the identity of the customer, raise an exception if failed (for account creation as well).  
The pin or password should be a user input from console  
When a customer is locked, he can only receive money
- No negative sold on any account is allowed, this should raise an exception as well
- In case of error the balance of the account should be the same as before the transaction

## General rules

- The customer should never see an Exception, instead they should be try/catch, and the user must be informed on what happened
- Three error in the identification should lock the customer.  
The different state should be managed with an enumeration (locked, ok).

- The customer should always receive feedbacks after each operation, including identification
- You should not be able to transfer money from/to the same account
- You cannot transfer money or create an account from a bancomat

