

line 22

Bank

+ addAccount (BankAccount account)

// adds a bank account object to  
array of accounts in the bank

+ toString()

// returns account # and balance for  
all accounts, using toString in  
# BankAccount class

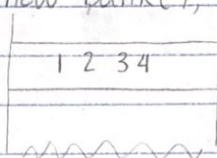
Bank myBank = new Bank();

// creates a bank called myBank,

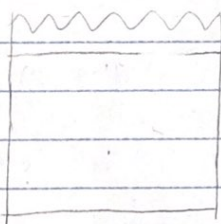
myBank:

// at memory location 1234

// currently empty



1234



line 23

BankAccount

- balance

- accountNumber

+ getBalance()

+ getAccountNumber()

+ toString()

+ deposit(double amount)

+ withdraw(double amount)

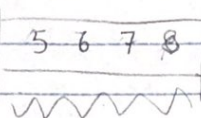
// returns balance & acct number for  
the object

BankAccount account1 = new BankAccount(0.0, "0001");

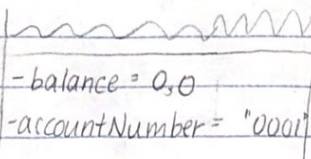
account1

// creates BankAccount  
object called account1

// at memory location 5678



5678

// assigns balance of 0.0  
// accountNumber of 0001

line 24

BankAccount account2 = new BankAccount(10.0, "0002");

account2

2	4	6	8
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// creates BankAccount  
object of account2  
// at memory 2468

2468

-balance = 10.0
-accountNumber = "0002"

// assigns balance of 10.0  
// assigns acct. # of 0002

line 26

myBank.addAccount(account1);

1 2 3 4

-account1: 5678
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// puts account1 into  
// list of accounts  
// account 1 still points  
// to 5678

line 27

myBank.addAccount(account2);

1 2 3 4

-account1: 5678
-account2: 2468

// adds account2 to list  
// account2 still points  
// to 2468

line 29

account1.deposit(50.0);

5678

-balance = <del>0.0</del> = 50.0
-accountNumber = "0001"

// balance of account1  
// is updated to 50.0



line 31

System.out.println(myBank.toString());

1 2 3 4

myBank: type Bank

+ toString()

- account1: 5678

- account2: 2468

// calls toString

// method in myBank

// toString calls toString

// method in each account

5678

account1: type BankAccount

+ toString

- balance = 50.0

- accountNumber = "0001"

// returns account1.balance

// returns account1 account  
Balance

2468

account2: type BankAccount

+ toString

- balance = 10.0

- accountNumber = "0002"

// returns info for

// account2.

output to  
console

0001: 50.0

0002: 10.0

// prints output of

// toString in myBank