

Lecture 6

Wednesday Sept. 27

EES 3311 - lab - bon. pdf

• Ximl

class Stack[G] ~~G~~ ~~ACCOUNT~~ ~~STRING~~

feature {NONE}

imp: ARRAY[~~G~~] ~~ACCOUNT~~ ~~STRING~~

feature

push (v: ~~G~~) ~~ACCOUNT~~ ~~STRING~~

top : ~~G~~ ~~ACCOUNT~~

POP ~~STRING~~

end (supplier)

local

SA: Stack[ACCOUNT]

SS: Stack[STRING]

Stack[ACCOUNT]

Stack[STRING]

an instantiation of G_i

another instantiation of G_i

(client)

class MAP [G, H] → parameterizing the type of keys
→ the type of values

feature {NONE}

keys: ARRAY [G]

values: ARRAY [H]

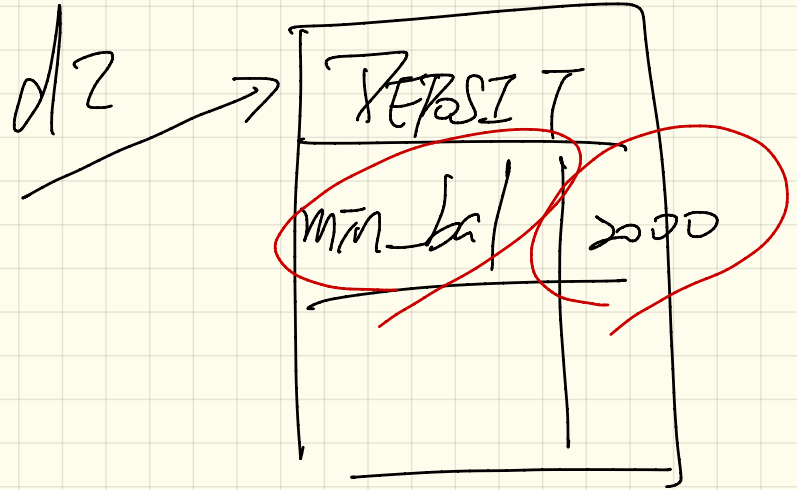
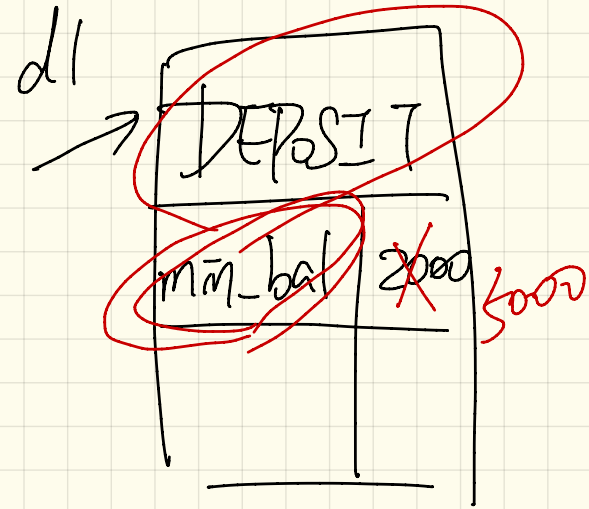
feature put (v: ~~H~~ STRING; k: G) ...

feature get (k: G): H

local m1: MAP [INTEGER, STRING]

m2: MAP [STRING, RECORD]

~~m1.put(2, "Value")~~
m1.put("Value", 2)



Problem: When min_bal is changed, need to change more than one obj objects.

BON (Business Oriented Notation)

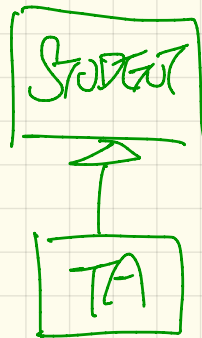
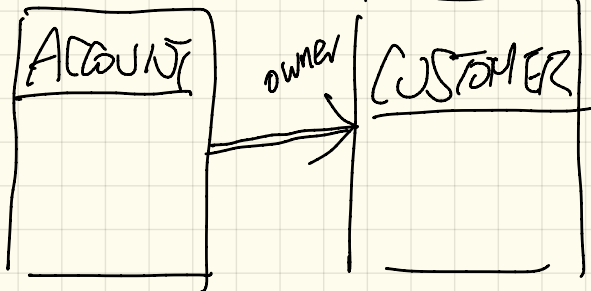
Two kinds of relations between classes :

(1) client-supplier
(2) inheritance

```
class STUDENT  
end
```

```
class TA inherits  
STUDENT  
end
```

```
(1) class ACCOUNT  
owner : CUSTOMER  
  
end
```



	student #	student name	
m1:	MAP [INT, STRING]		(m1.get(12345))
m2:	MAP [STRING, REAL]		m2.get
	student name	grade	

create m1. make_empty
 create m2. make_empty
 m1.put ("jackie", 12345)
 m2.put (6.5, "jackie")

Problem: given a student whose id is 12345, return their grade.

m2.get(m1.get(12345))
"jackie"

class ARRAYED_CONTAINER [G]

imp: ARRAY[~~STRING~~^G]

get_at (i: INT): ~~STRING~~^G

insert_at (i: INT; s: ~~STRING~~^G)