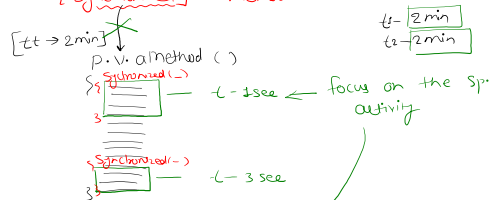


[Thread Synchronization] - Data Integrity  
 - Control Content Switch  
 - Thread safety  
 - why - multiple threads with 1 Resource

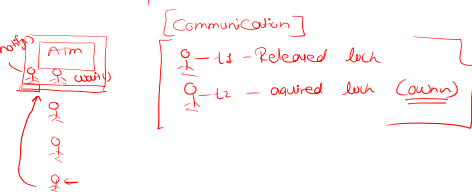


[Synchronized] - method



[Activity centered Synchronization]

- Synchronized block



Object  $\xrightarrow{\text{real}}$  `val = 100;`  $\rightarrow$  primitive value  
 $\xrightarrow{\text{object}}$  X

[ `Object val = new Integer(100);` ] ✓

`int i = 100;`  
 Object val = i; X primitive cannot be assigned to object  
`val = new Integer(i);`  $\rightarrow$  wrapped prem into object  
 — boxing —

`int i = val;` X — object cannot be assigned to prem.  
`int i = val.intValue();`  $\rightarrow$  unwrap object into primitive  
 — unboxing —

Dynamically Typed language

X  
 Data type  
 — ? — } — JavaScript  
var } — Python

Statically Typed language } — Java  
 — ? — int val ;

X  
 ? — [ T ] val  
 • Generic parameter  
 < Integer >  
 T val ;  
 (Object) Integer  
 Type Erasure  
 Generics

## - Assignments -

1) Create an Array to Hold 10 Account Objects

- 1) Search particular account object using accountNo.

- 2) If account no present print the details of account.

- 3) Check whether 2 account object is having same contents or diff

2) class Account {  
4) Find out how many saving accounts are there in array

{  
    T t;  
    w w;  
}

- 5) Arrange account balance wise - low balance to high balance

3) Bounded Type