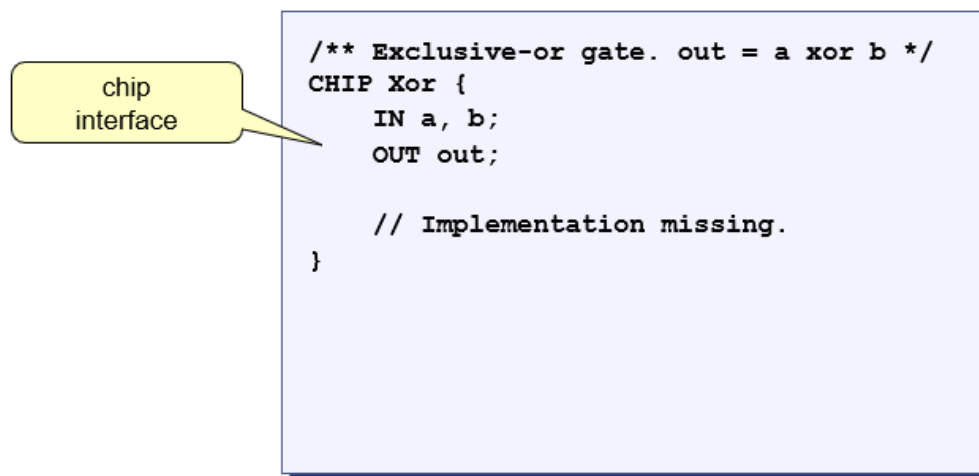


# 【CA】 Day3

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| ▼ Course     | Nand to Tetris    |
| 📅 Study Date | @January 26, 2022 |

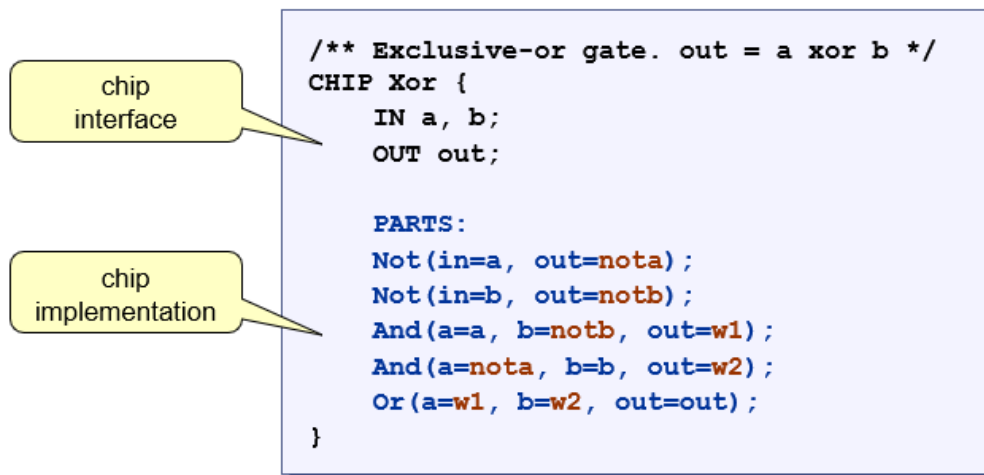
## 【Ch1】 Simulator Tutorial

### 1. Chip Definition(.hdl file)



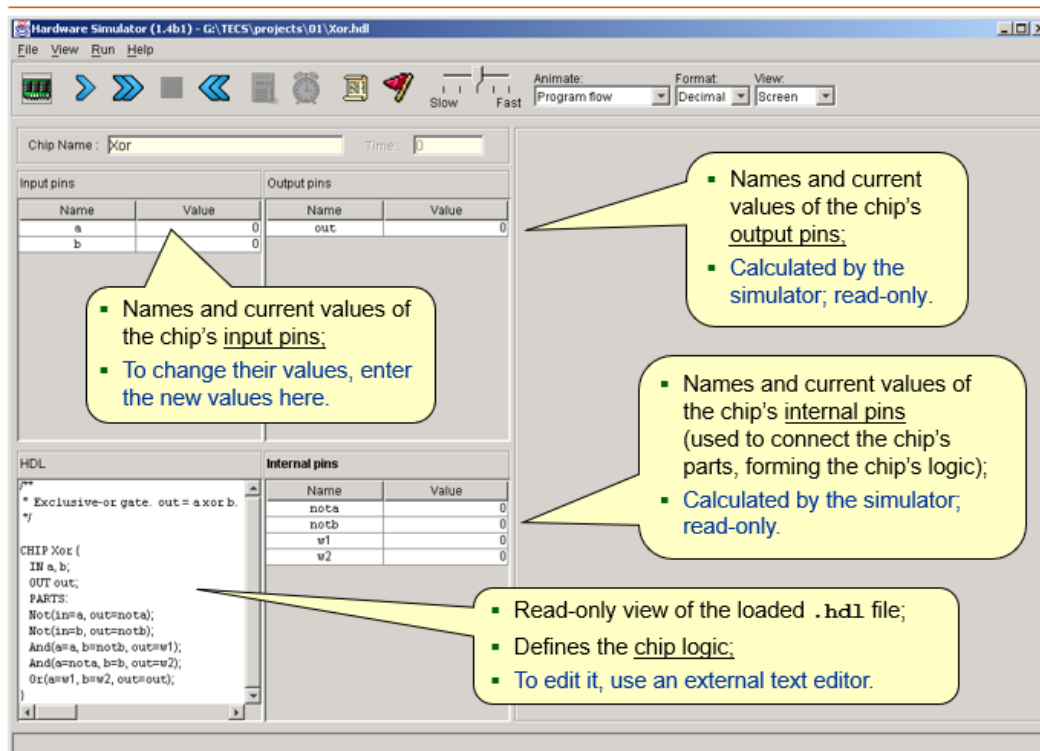
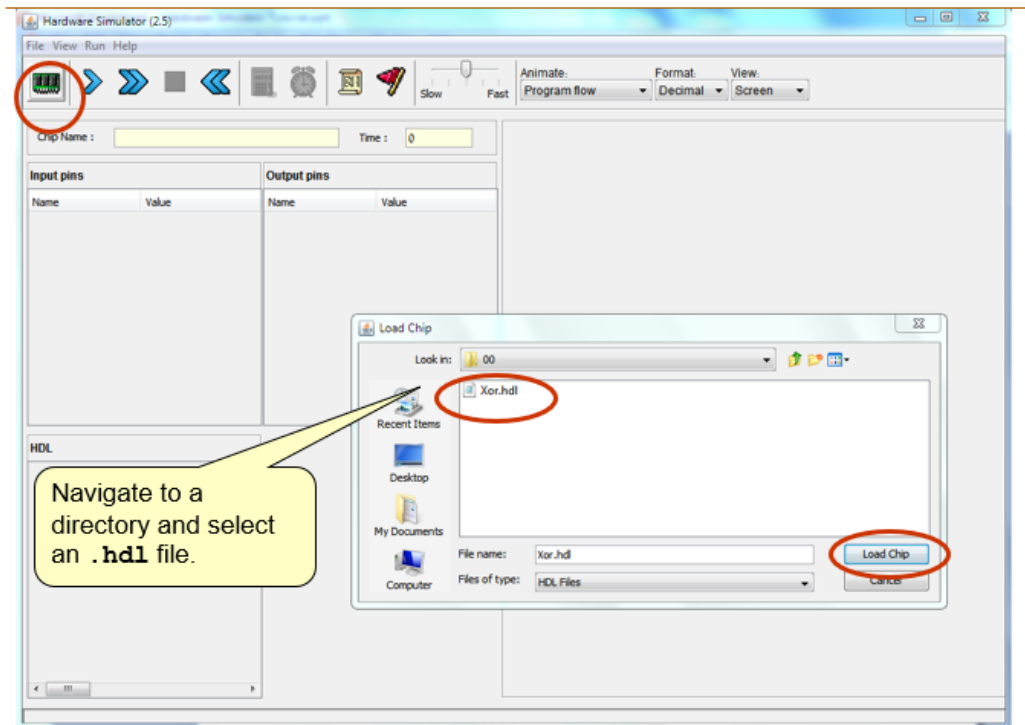
The chip interface includes:

1. Name of the chip
2. Names of its input and output pins
3. Documentation of the intended chip operation



- Any given chip can be implemented in several different ways. This particular implementation is based on:  $Xor(a, b) = Or(And(a, Not(b)), And(Not(a), b))$
- `Not`, `And`, `Or`: Internal parts (previously built chips), invoked by the HDL programmer.
- `nota`, `notb`, `w1`, `w2`: internal pins, created and named by the HDL programmer; used to connect internal parts

## 2. Load a Chip



### 3. Test Scripts:

- Used for specifying, automating and replicating chip testing
- Supplied for every chip mentioned in the book
- Can create an output file that records the results of the chip test.

