Cadence virtuoso schematic editor

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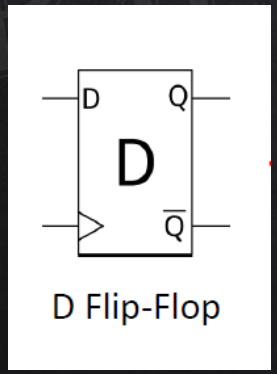
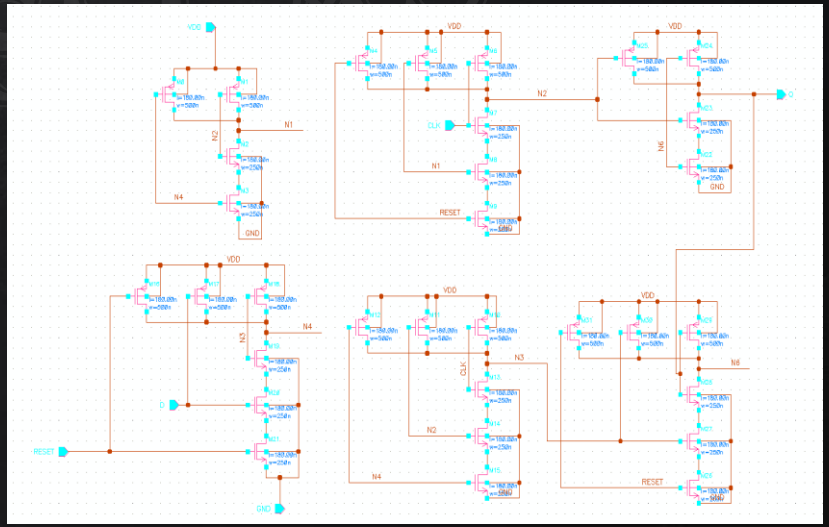
Introduction to Cadence Virtuoso Schematic Editor

Introduction

- ✗ Cadence Virtuoso Schematic Editor
  - Cadence's Product
  - Create and edit a schematic
  - Simulate circuit

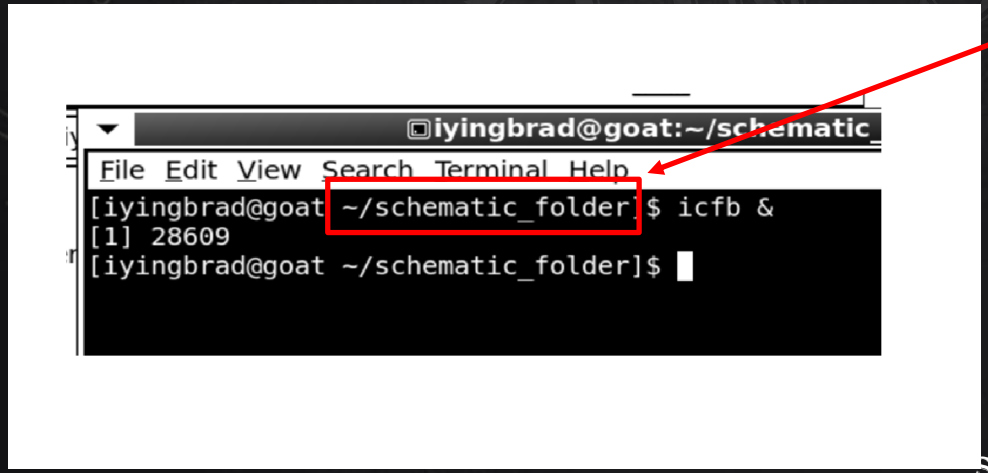




Start Virtuoso

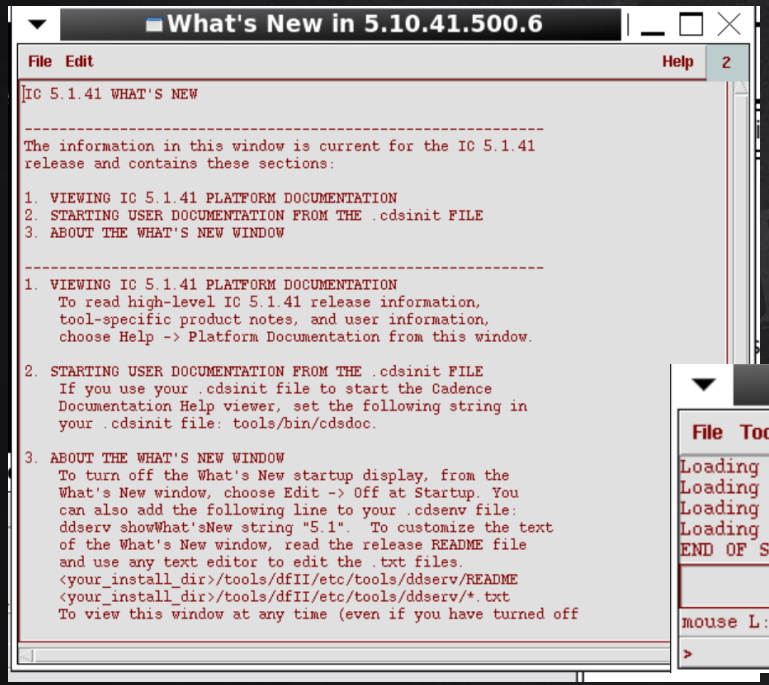
Start Virtuoso(1/2)

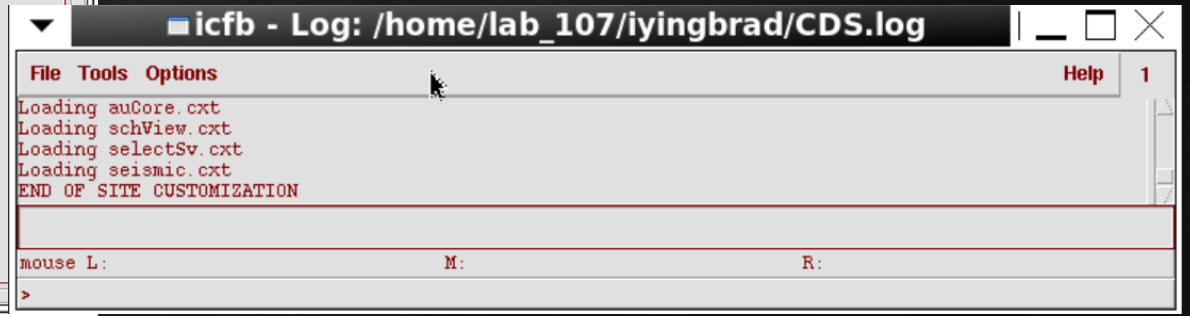
- ✗ Open terminal in the folder you want to save the schematic
  Type command : icfb &
  The '&' is optional



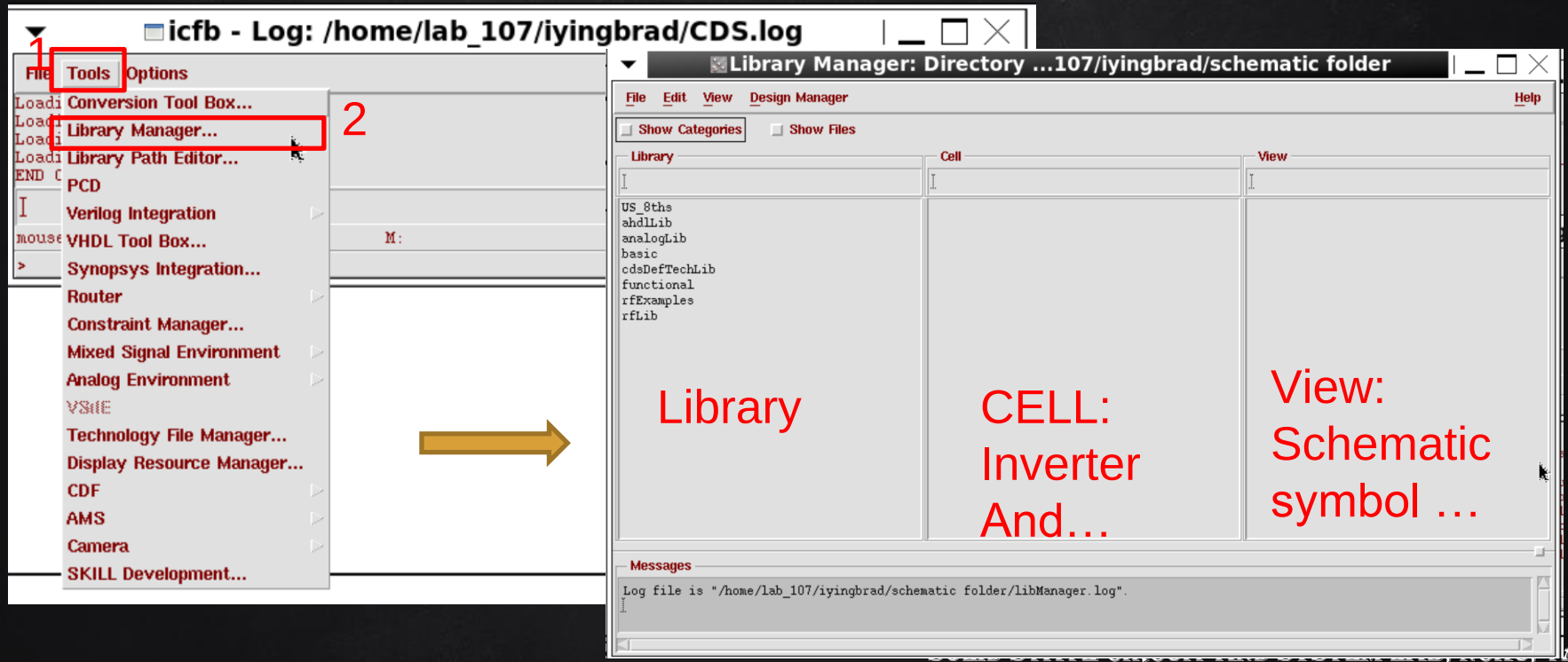
Folder in which you want to save schematic

Start Virtuoso(2/2)

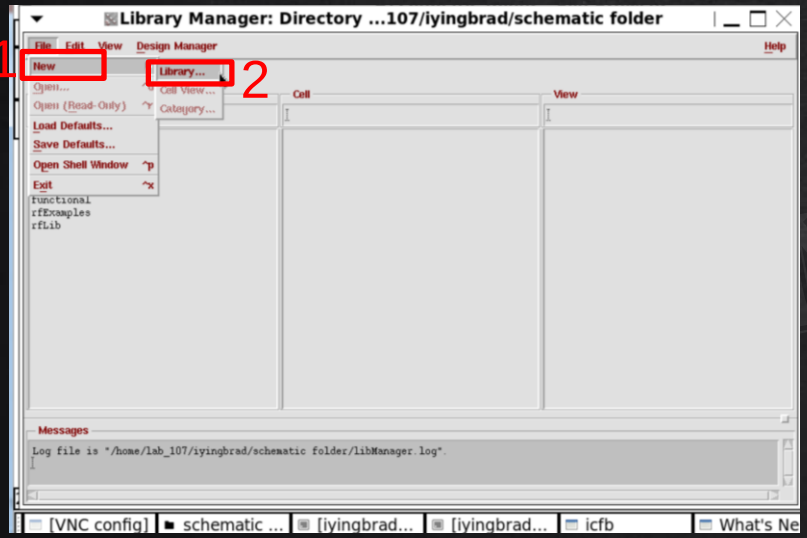


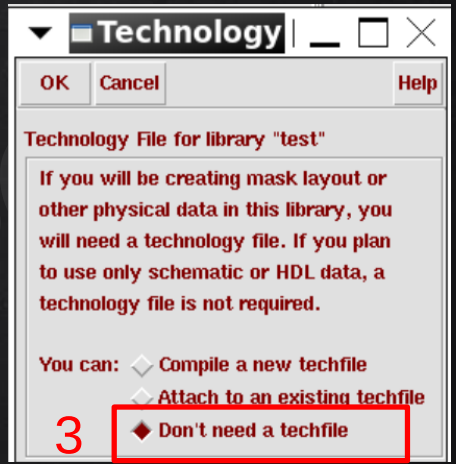


Library Manager

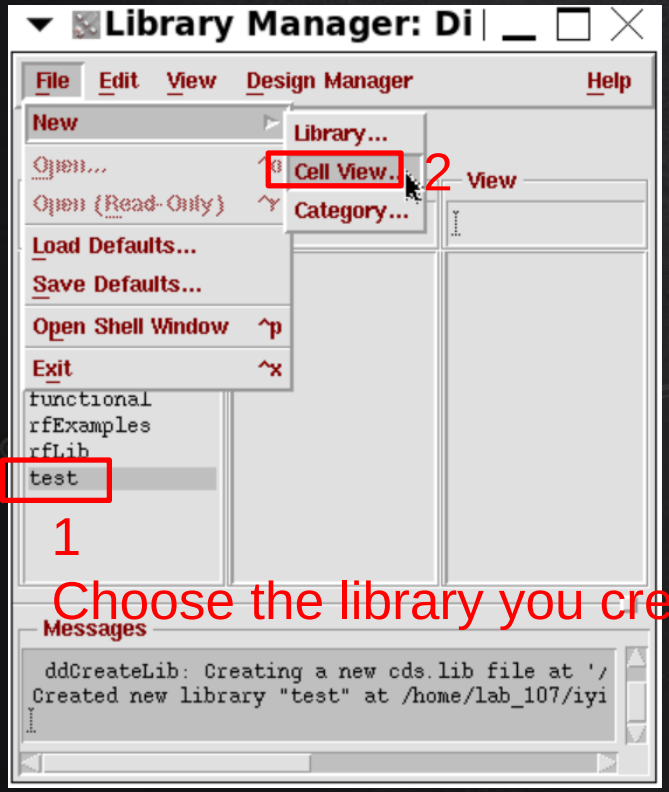


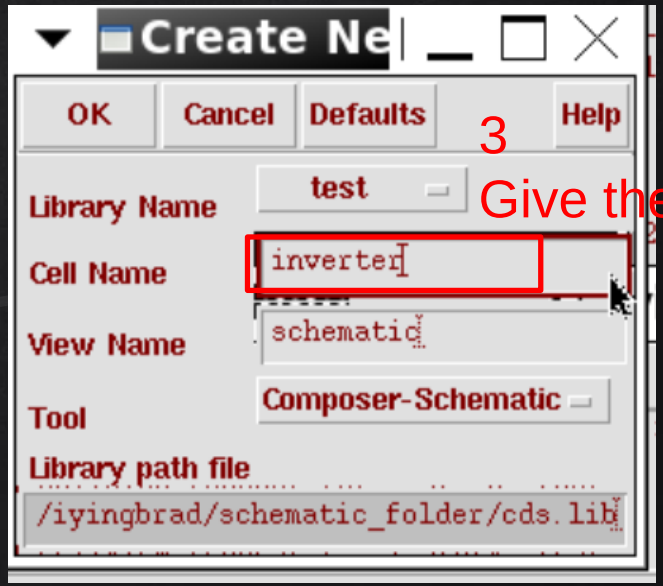
Create New Library



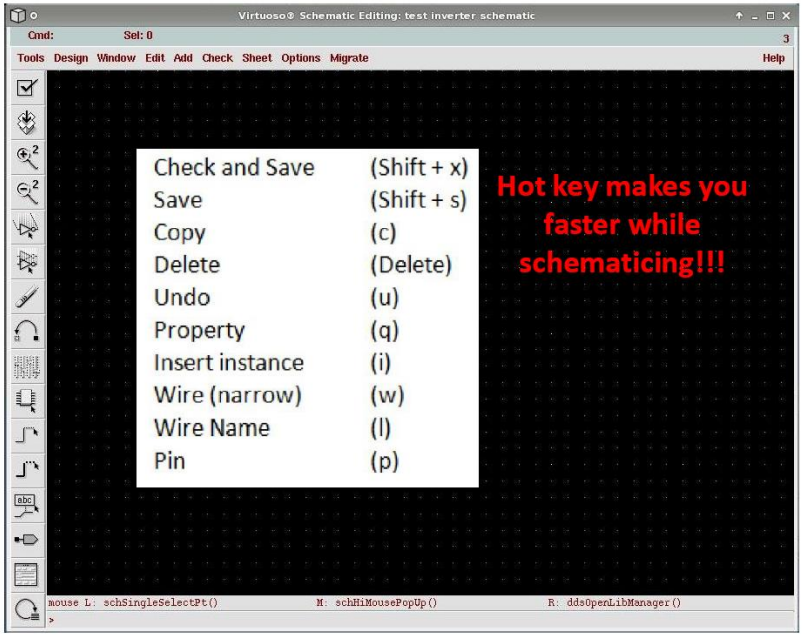


Create New Cell

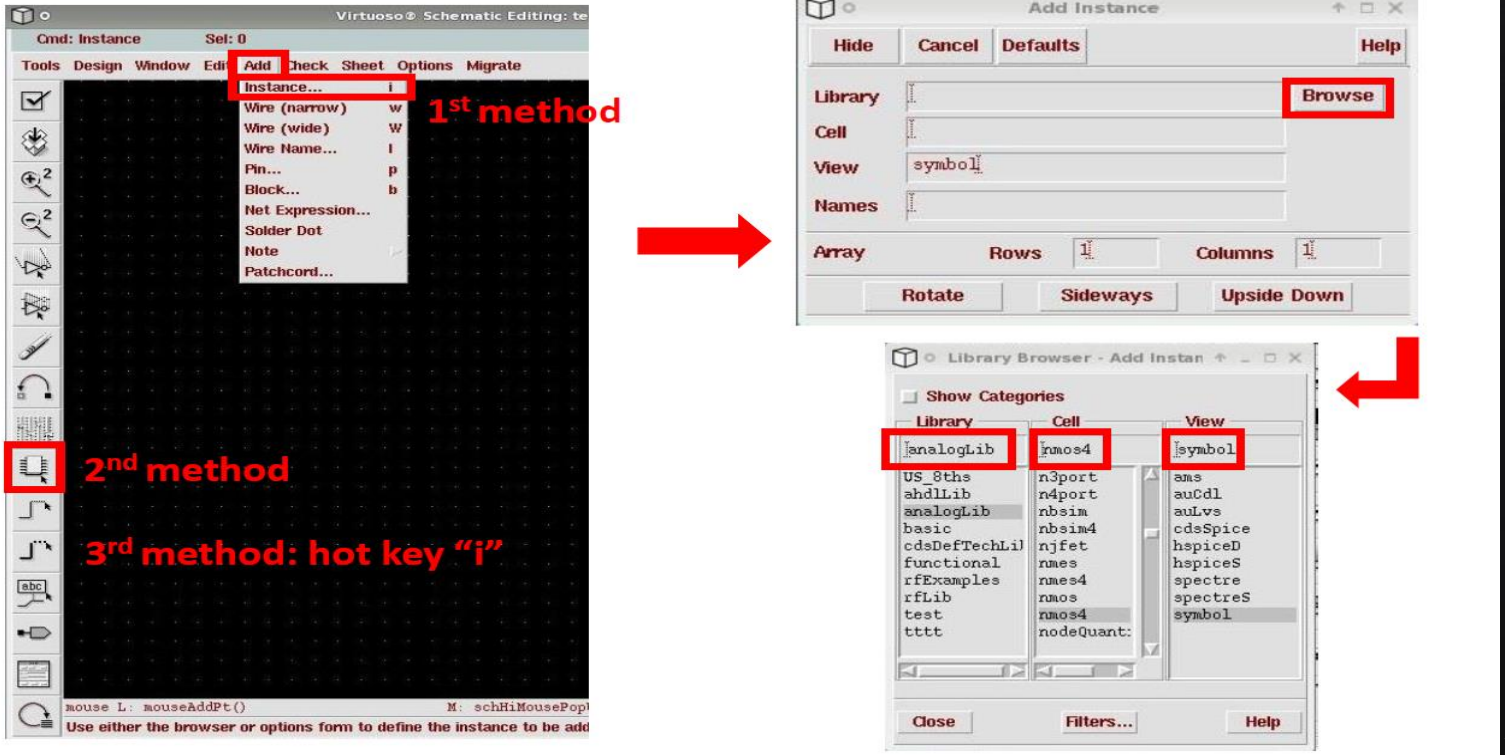




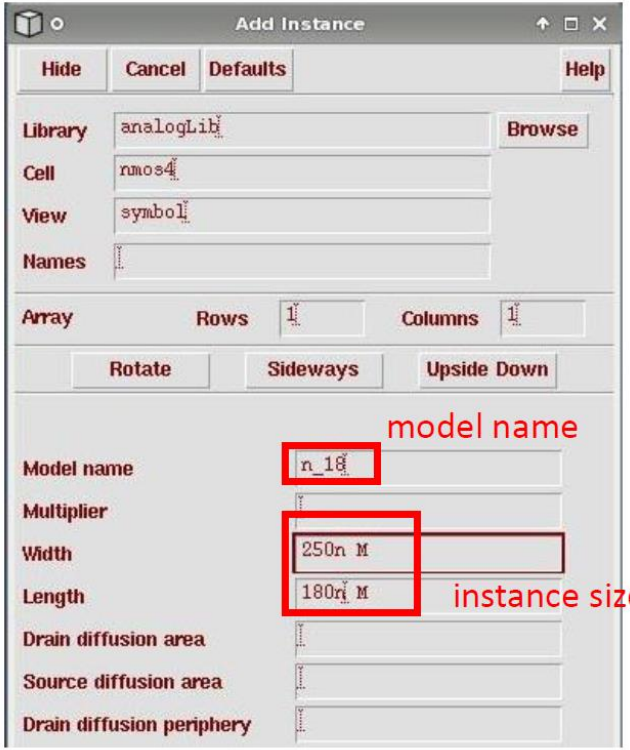
Hot key for schematic

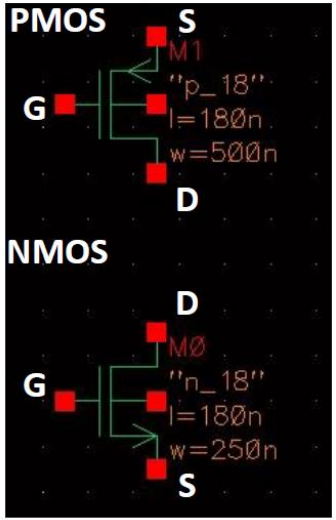


Add instance



Add instance



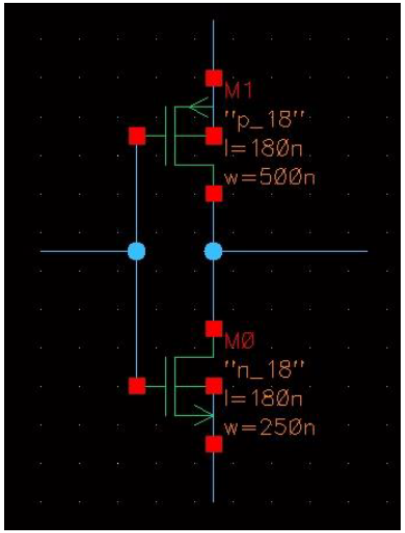


Model Name:

1. n_18 (for NMOS)
2. p_18 (for PMOS)

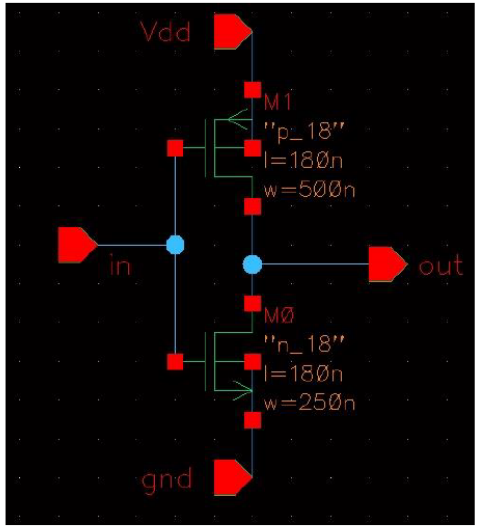
Inverter – wiring and pins

Wire: hot key “w”

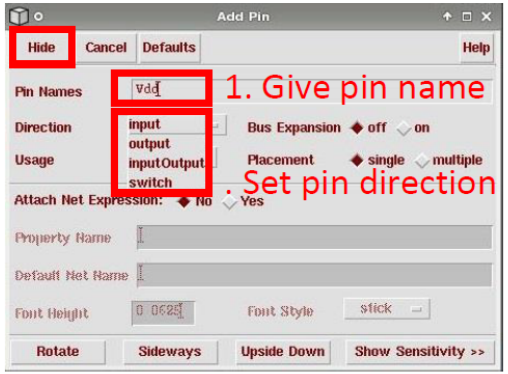


Wire body to vdd (for PMOS)
gnd (for NMOS)

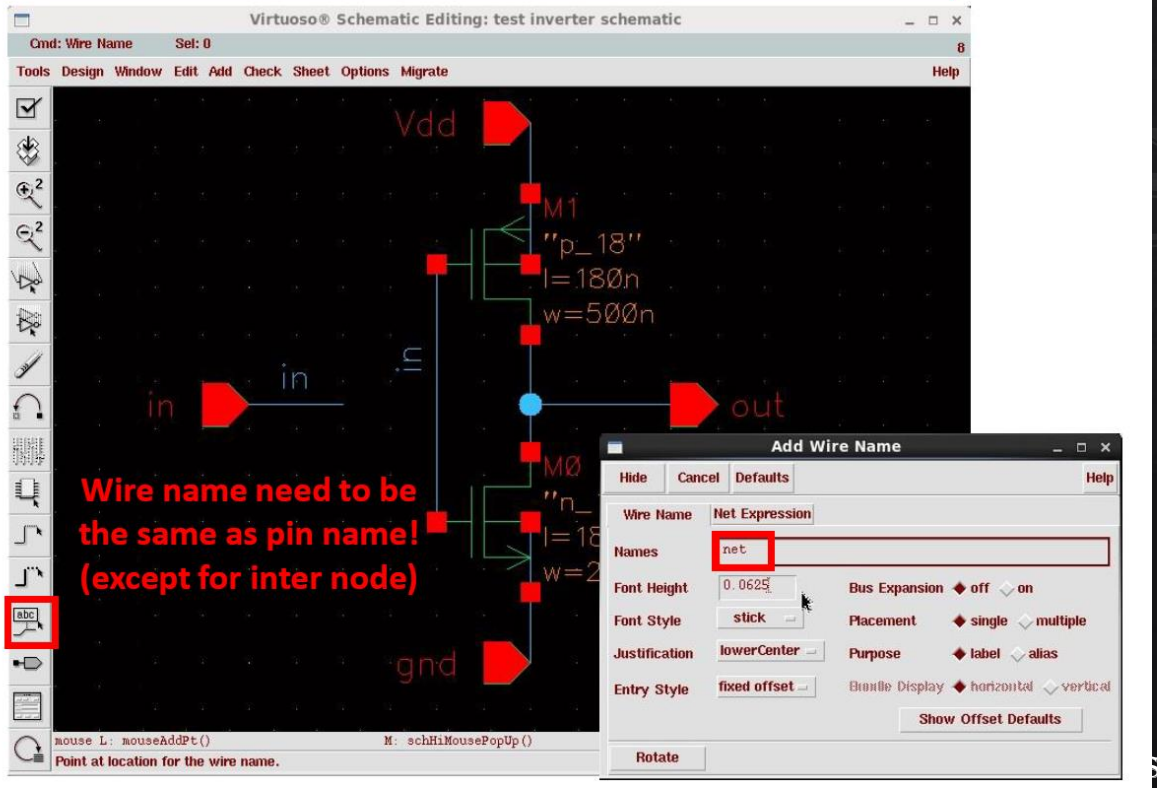
Pin: hot key “p”



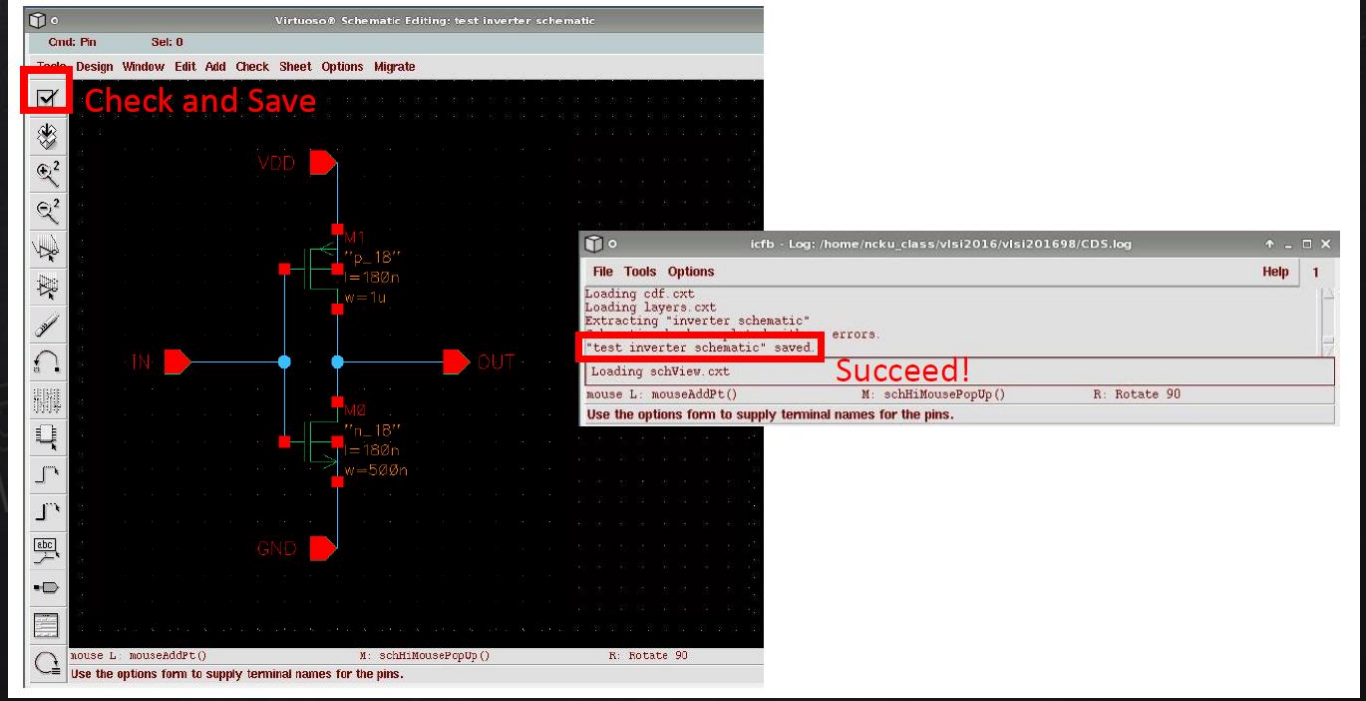
3. Hide



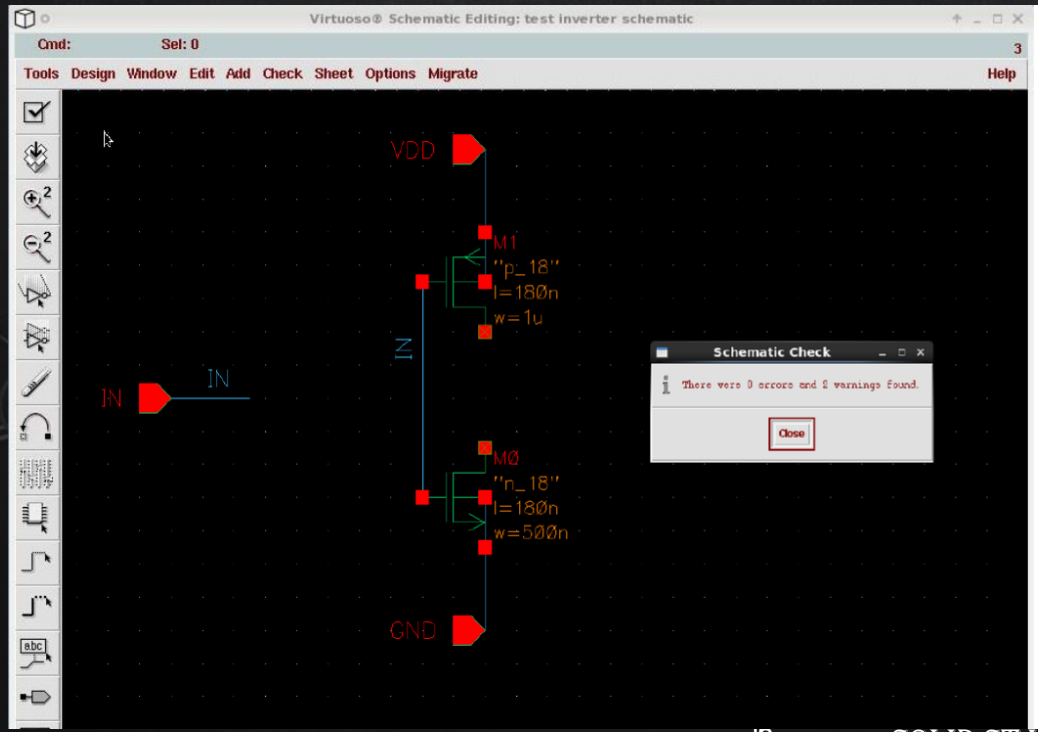
Inverter –tips



Inverter –Check and save

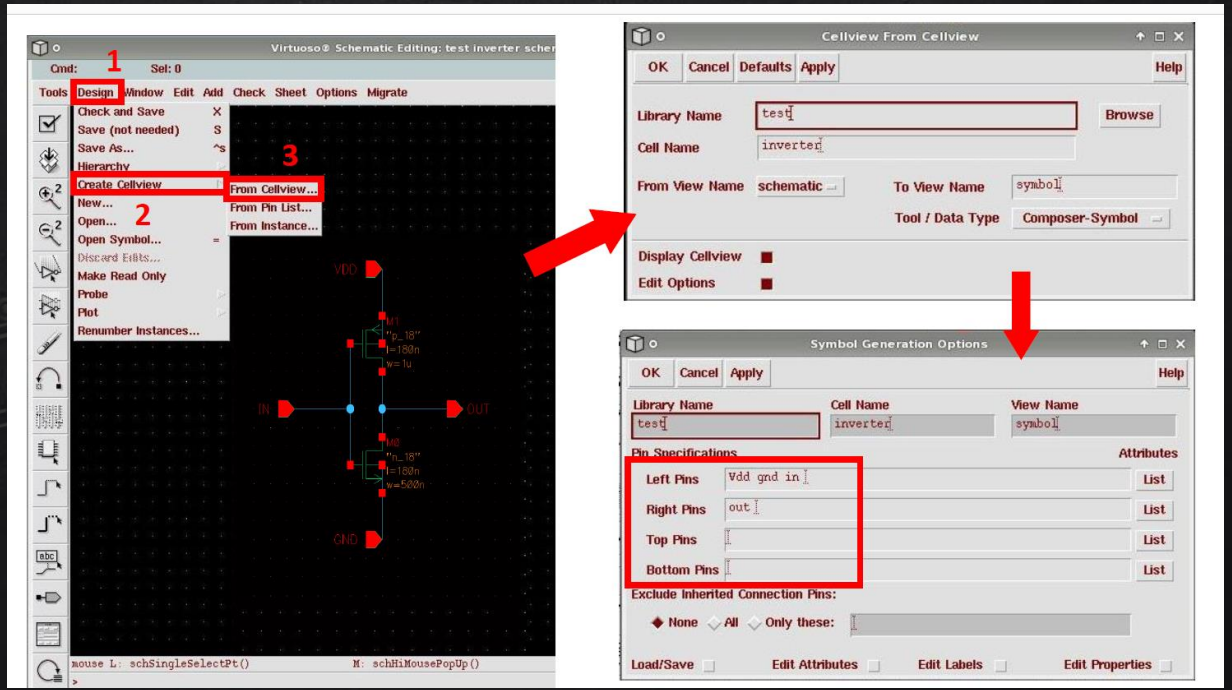


Inverter- Error

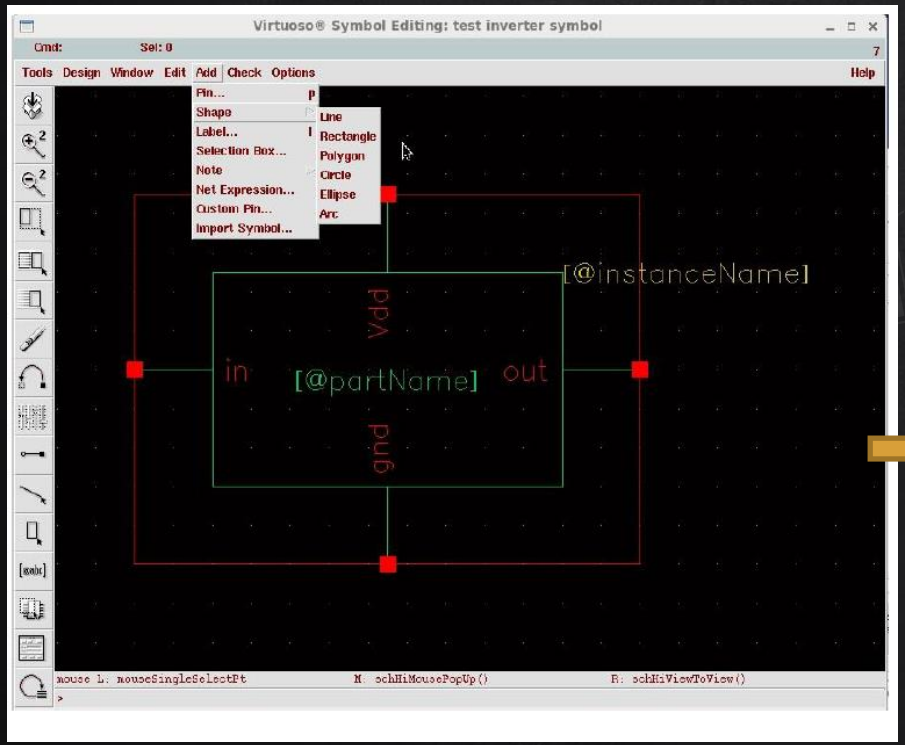


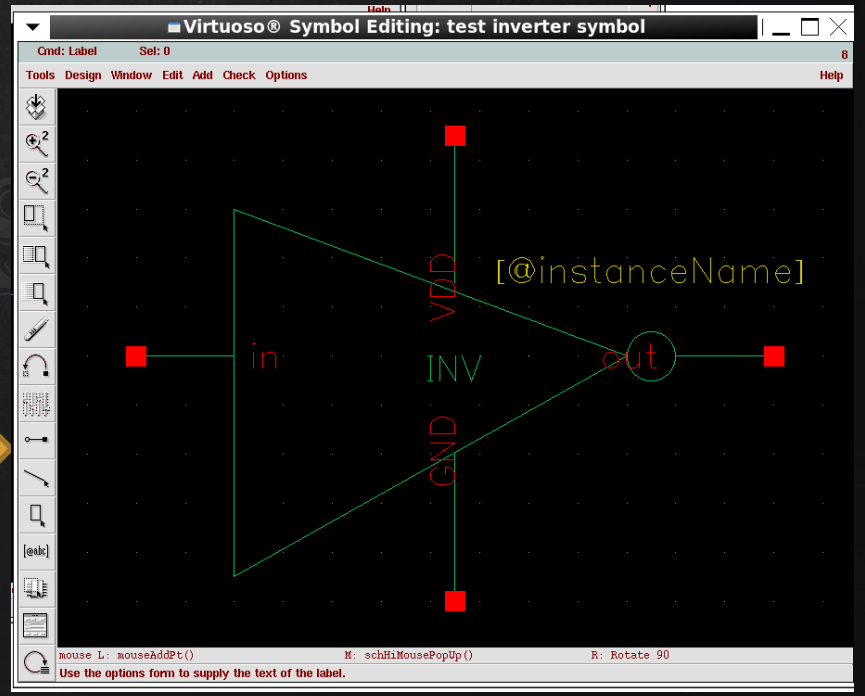
Please make sure there is no error before you go to the next step!

Inverter– create cellview(1/2)



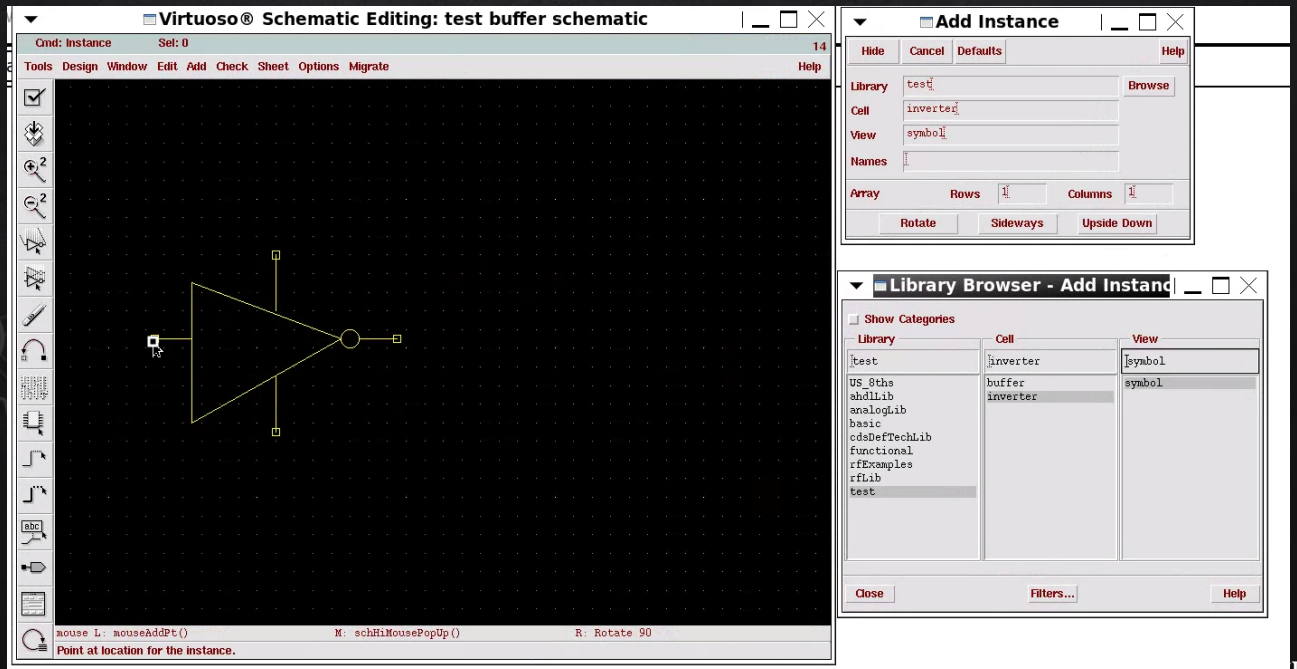
Inverter- create cellview(2/2)





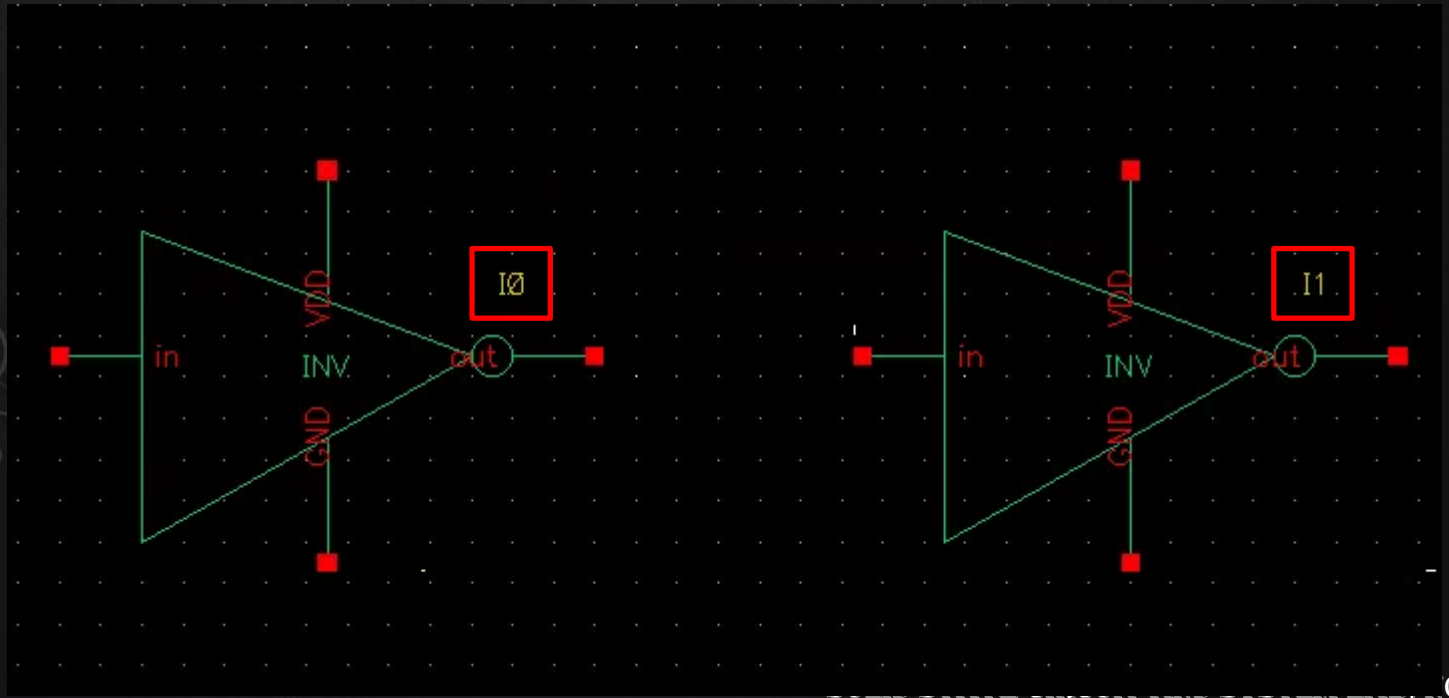
Inverter– use symbol on other cell(1/2)

On new cell (NAND NOR …), you can hierarchically create the circuit with add instance



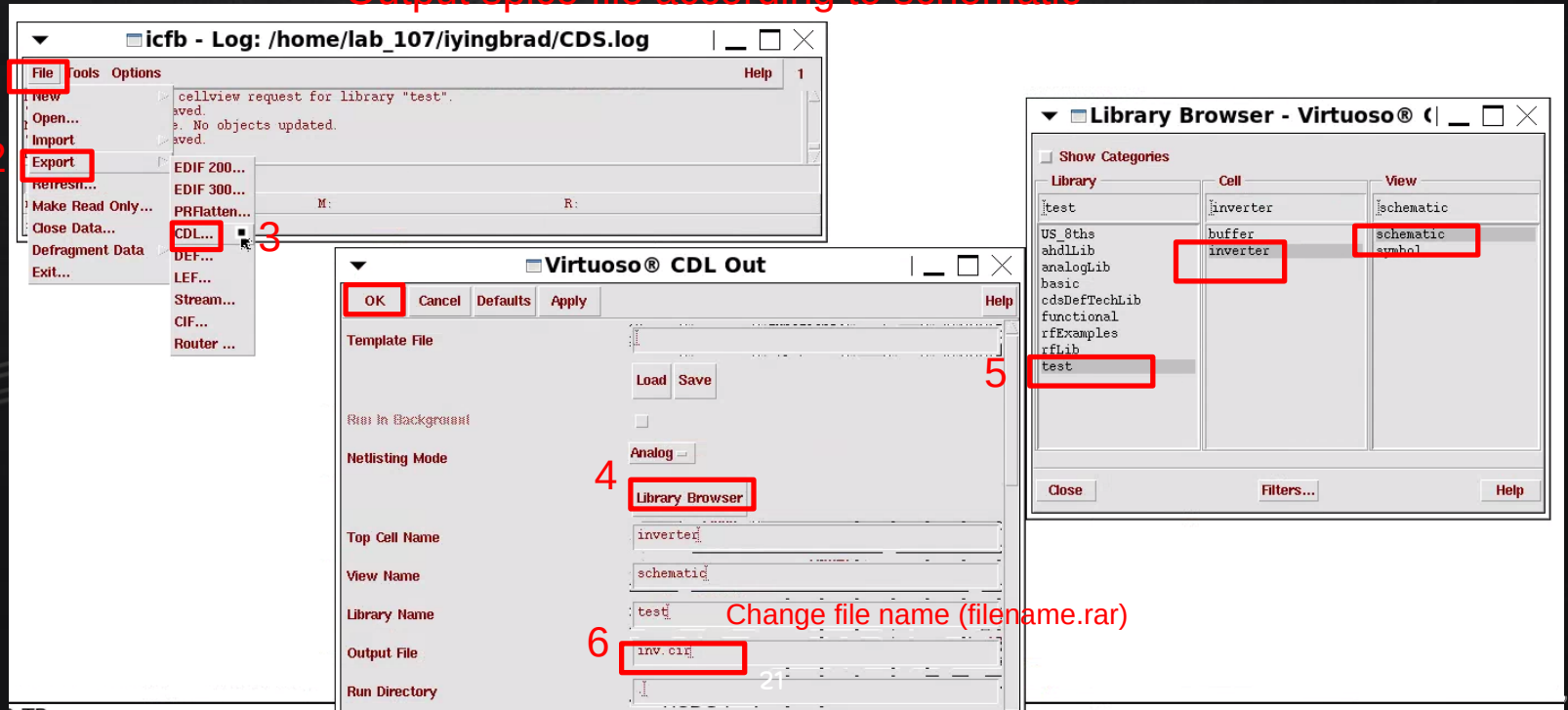
Inverter- use symbol on other cell(2/2)

Instance name will automatically be created



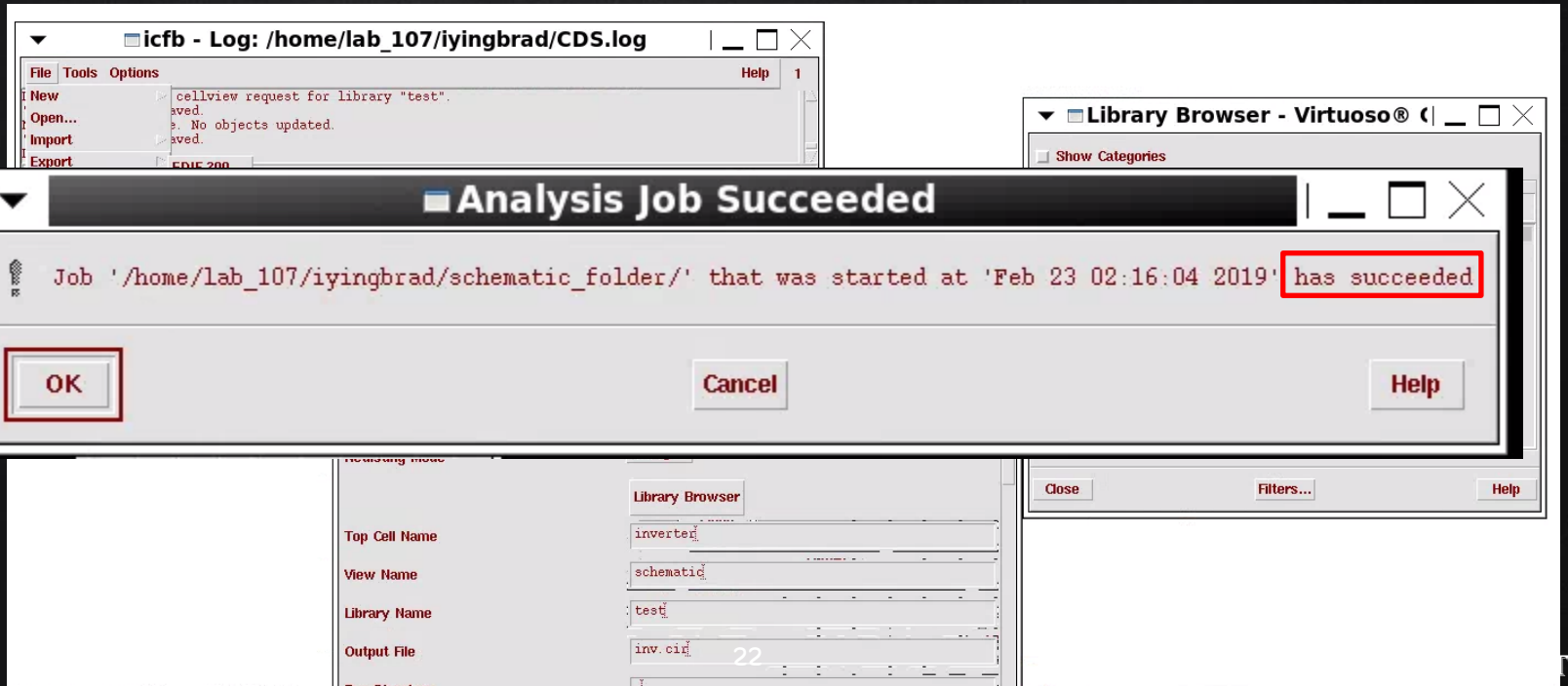
Inverter– CDL out

Output spice file according to schematic

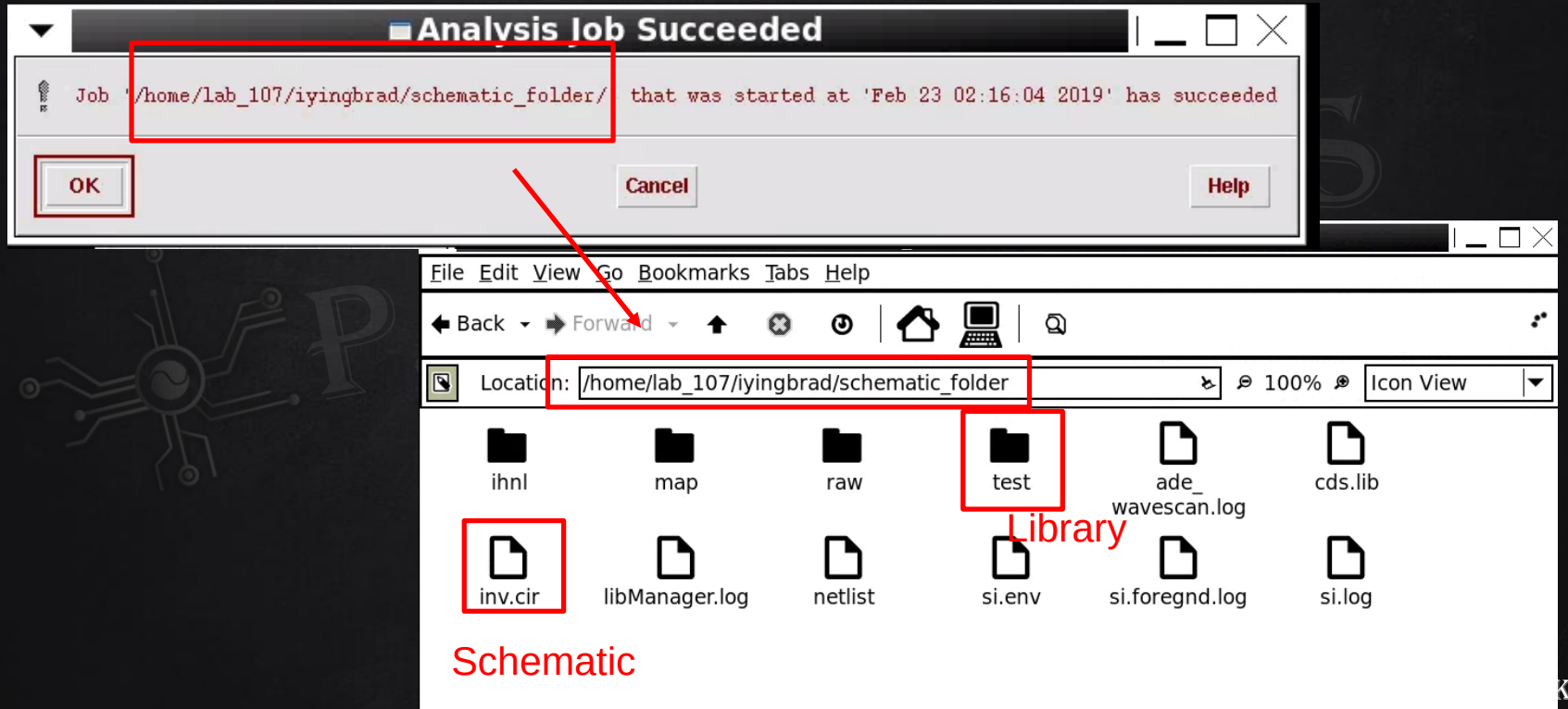


Inverter- CDL out

Output spice file according to schematic



Inverter- CDL out



Thanks!