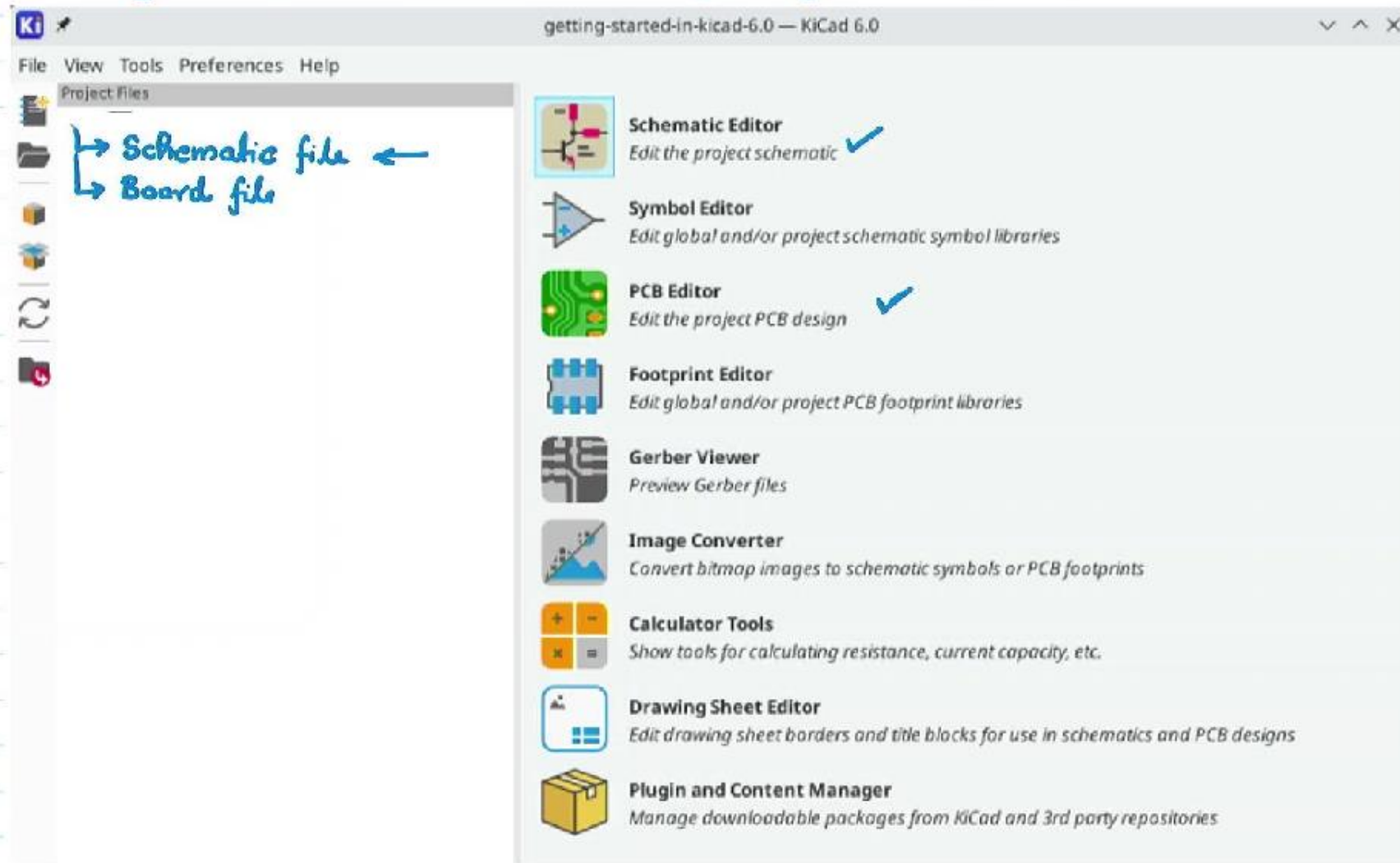


File → ^{New Project}
New Schematic/Board

Browse to your desired location, and give your project a name.



Symbol Library Table Setup :

The first time the schematic editor is opened, a dialog box will appear asking how to configure the global symbol library table.



These are standard library paths for particular operating system. ⇒

- ✓ Windows: C:\Program Files\KiCad\6.0\share\kicad\template\
- ✓ Linux: /usr/share/kicad/template/
- ✓ macOS: /Applications/KiCad/KiCad.app/Contents/SharedSupport/template/

Schematic Sheet setup:

Go to File \rightarrow Page settings.

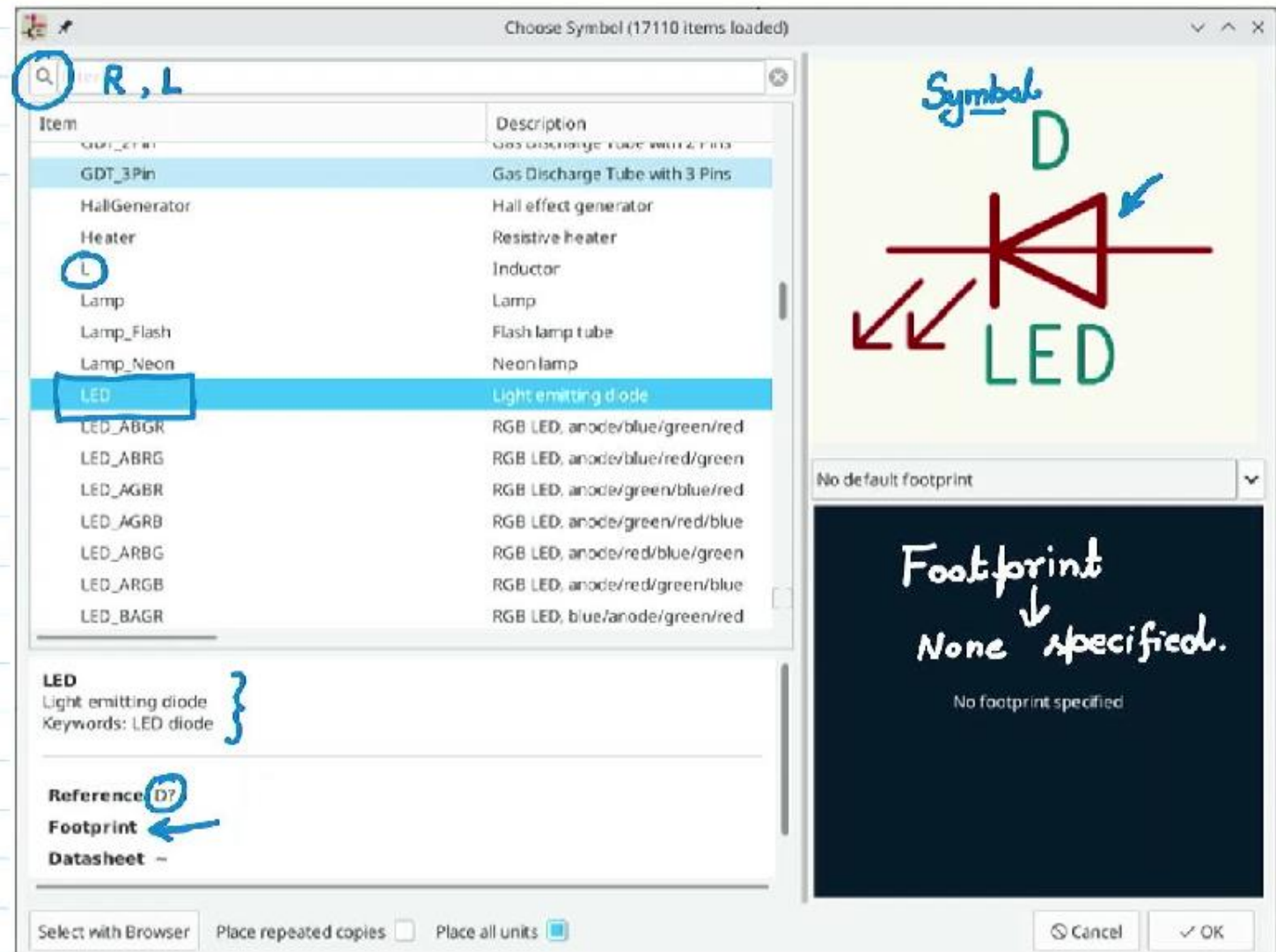
Title block is for the information purpose.

[illegible]

Adding the symbols to the schematic:

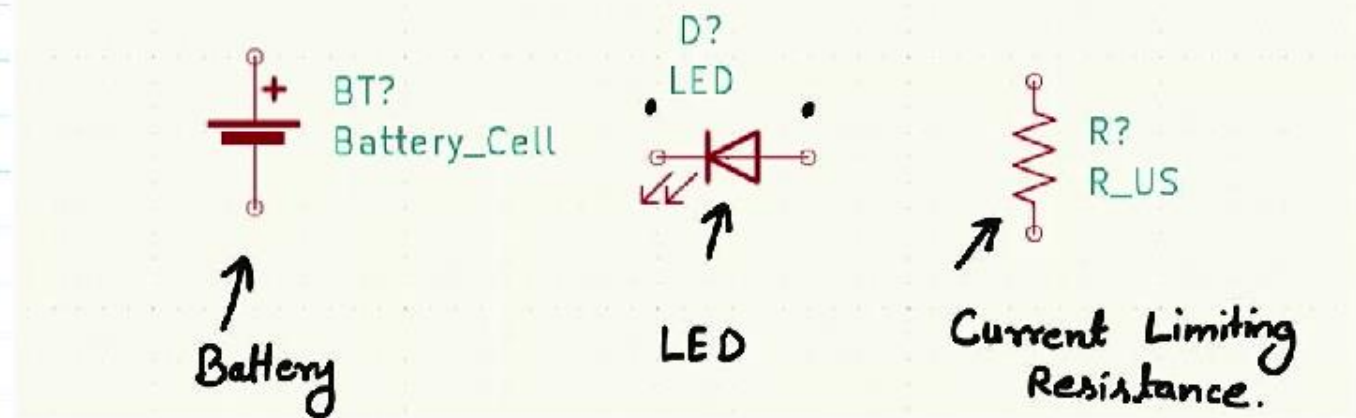
We start making the circuit by adding desired symbols to the schematic.

Click on "Add a symbol" button or pressing "A".



Selecting and Moving objects:

Schematic Window:



Selected objects are moved

by pressing "M".

and rotated by pressing "R".



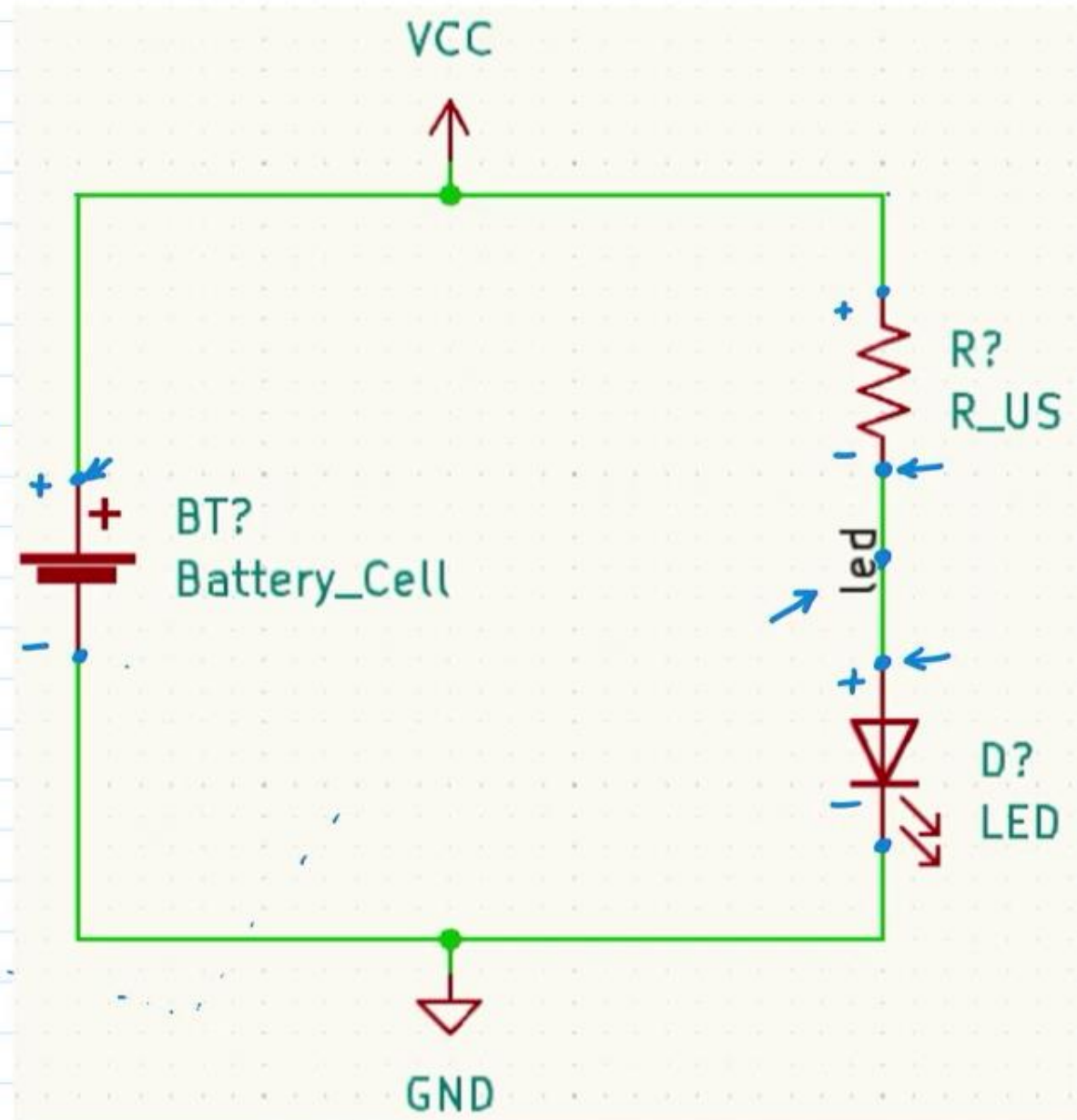
Wiring the Schematic :

- click on "Add a wire" button on the right hand toolbar.
- Add a VCC symbol and GND symbol. and connect them to circuit with wires
- Click on "NET Label" button and name "led" to the net.
- Labels with same name are



NPTEL

Connected together.



Annotation :

each symbol needs a unique reference.

click "Annotate" and choose default setting.

Symbol properties :

Fill in the values for each component.

Lithium coin cell battery \rightarrow 3V

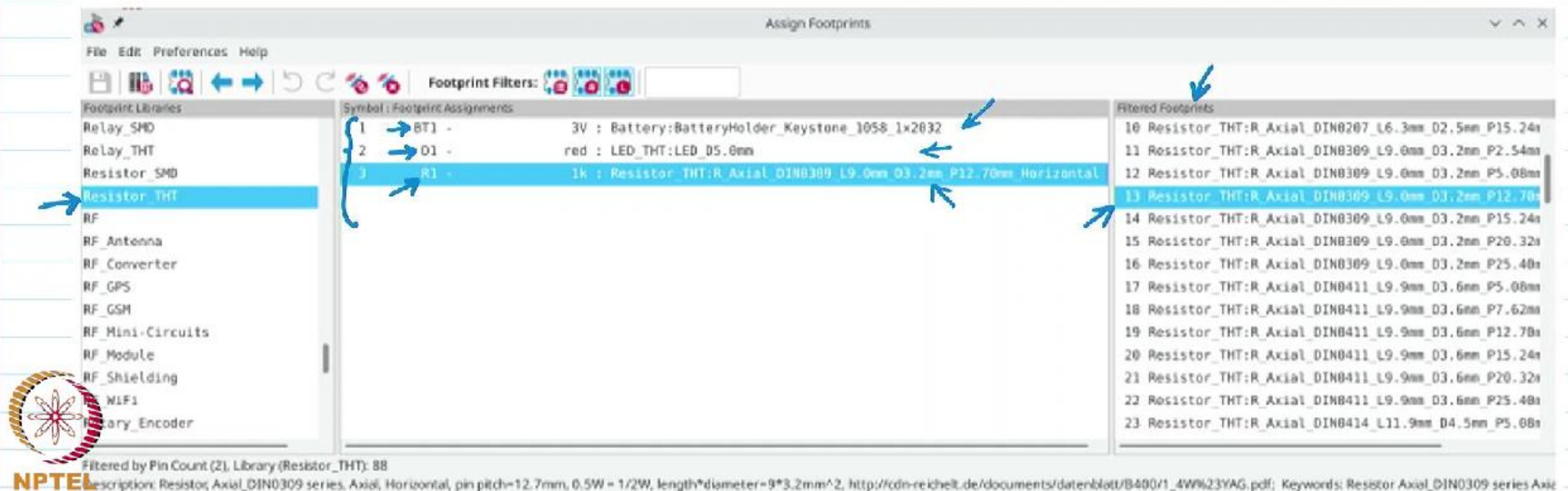
Resistance \rightarrow 1k Ω



Foot print Assignment: Many symbols are pre-assigned footprints.

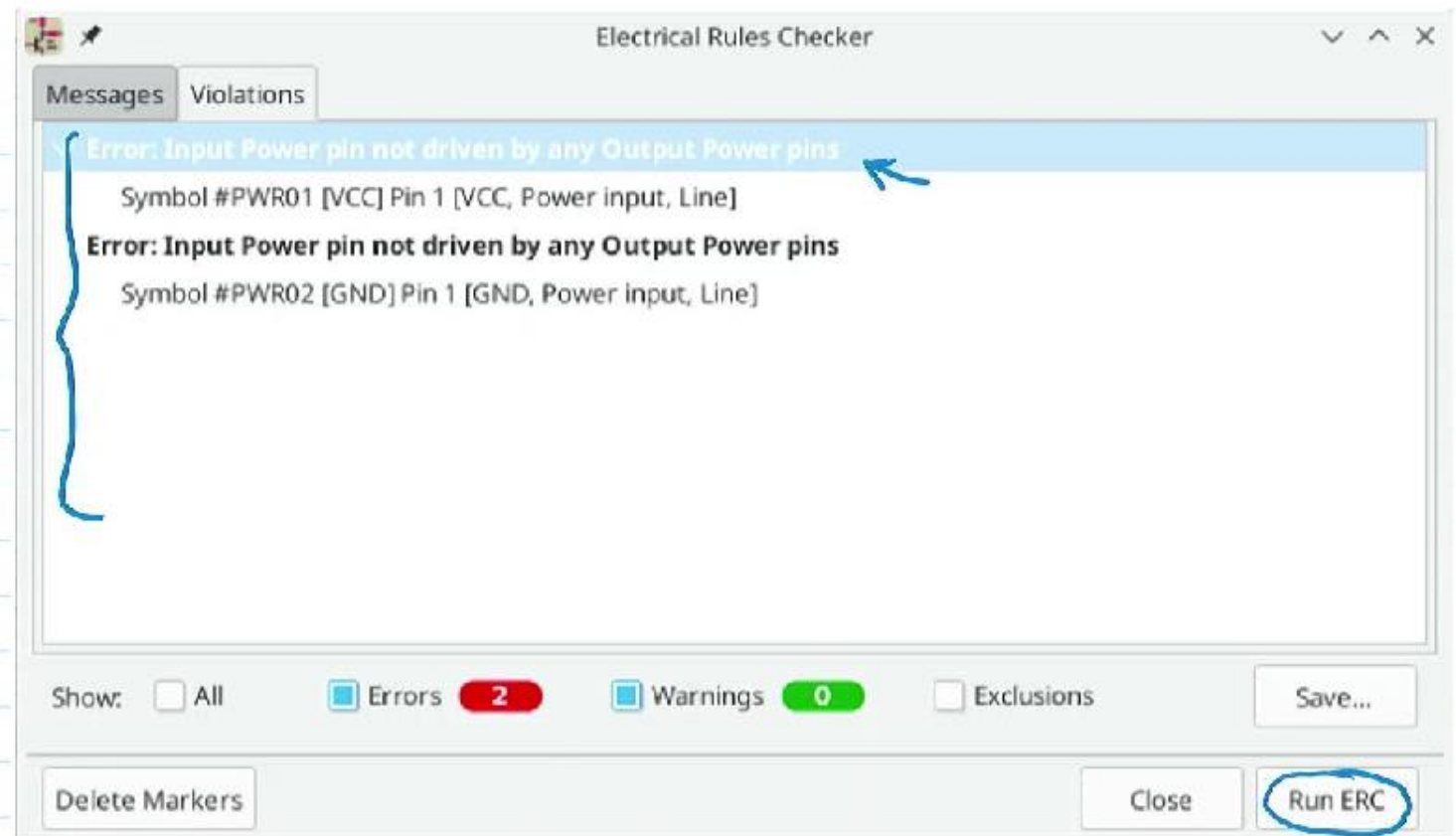
All symbols need to be attached to particular footprint.

4x6
3x2



Electrical Rule Check : (ERC)

It is good to run ERC before starting Layout .



Bill of Materials (BoM) :

Tools → Generate BOM .

