# Logic Simulator
# User Guide

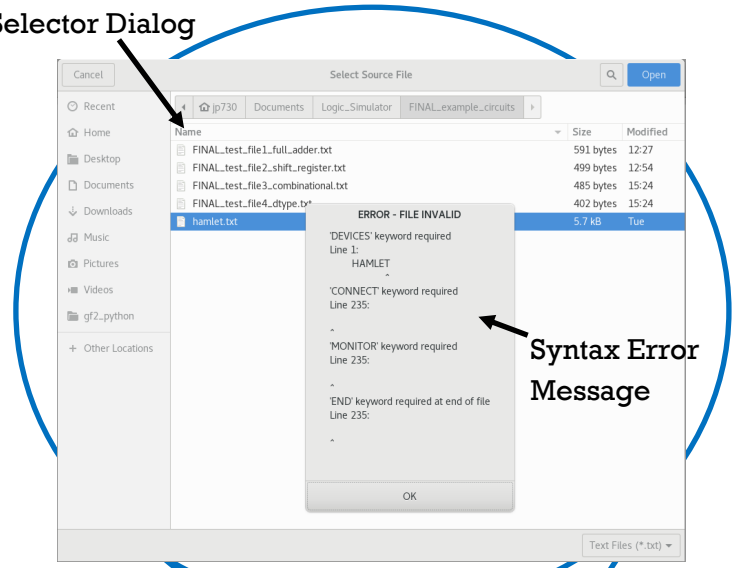
To load graphical user interface (GUI), change directory into the folder *gf2_python* and run the *logsim.py* program using the command:

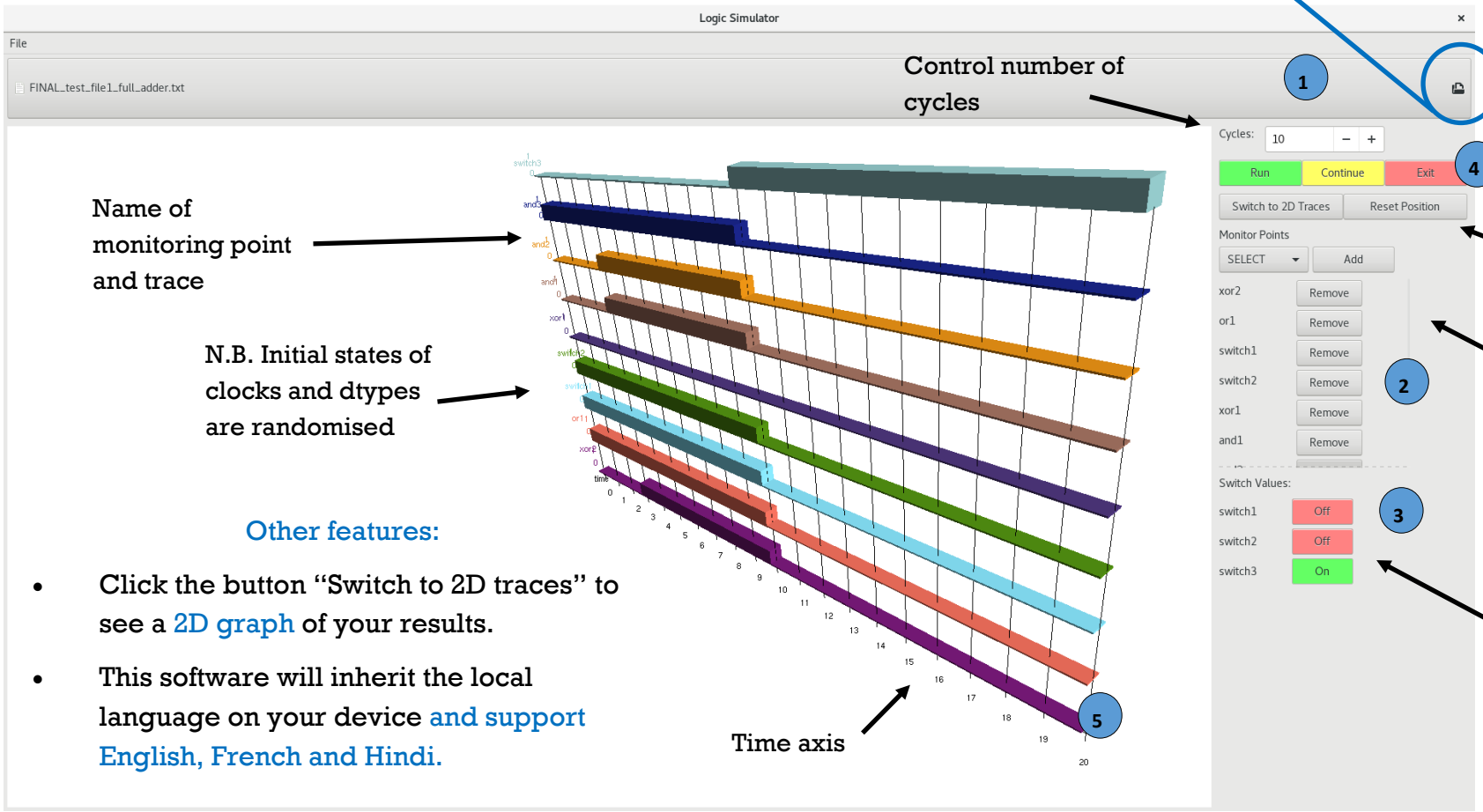
*python logsim.py (def file location)*

The location of a definition file is optional and the GUI will be preloaded with the file if the argument is given.

## Performing Circuit Simulation:

1. If not preloaded, then click browse button and select your desired '.txt' definition file.
2. Add/Remove points in the circuit at which the trace will be recorded on the canvas by the simulator.
3. Select the desired initial state of the switches in the circuit (this will not appear if no switches exist)
4. Enter the number of cycles for which the circuit should be simulated and click the run button.
5. The trace for each monitoring point will be displayed on the canvas. Pressing the continue button will continue simulating each trace for the specified clock cycles (max 100 per run/continue).




## LOGIC DEVICES SUPPORTED

- CLOCK
- SWITCH
- SIGGEN
- AND
- NAND
- OR
- NOR
- XOR
- DTYPE

### Other features:

- Click the button "Switch to 2D traces" to see a 2D graph of your results.
- This software will inherit the local language on your device and support English, French and Hindi.