Automating Simulation

REF: **ModelSim® Tutorial**
Software Version 10.4c

Simulation using DO File

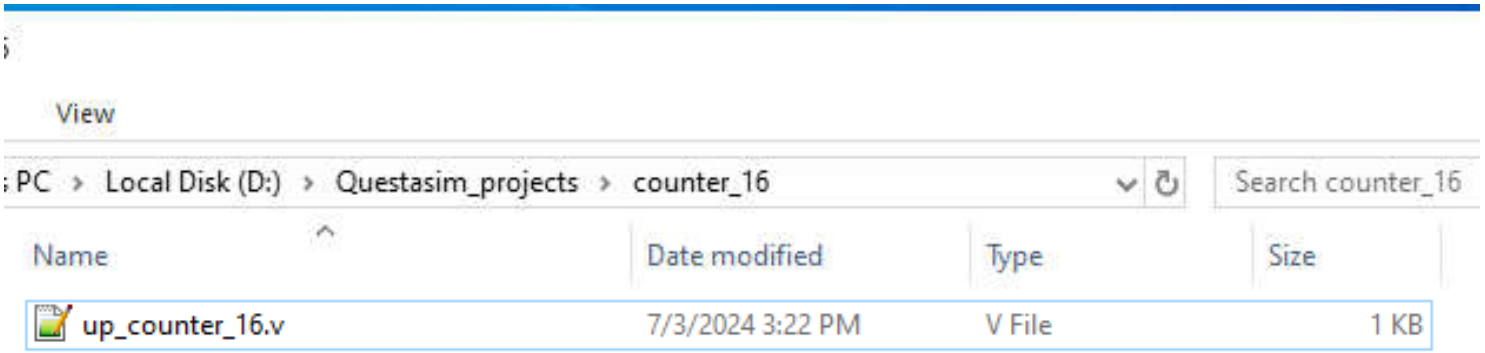
Creating a Simple DO File

- Creating a **DO file** is as simple as typing a set of commands in a **text file**.

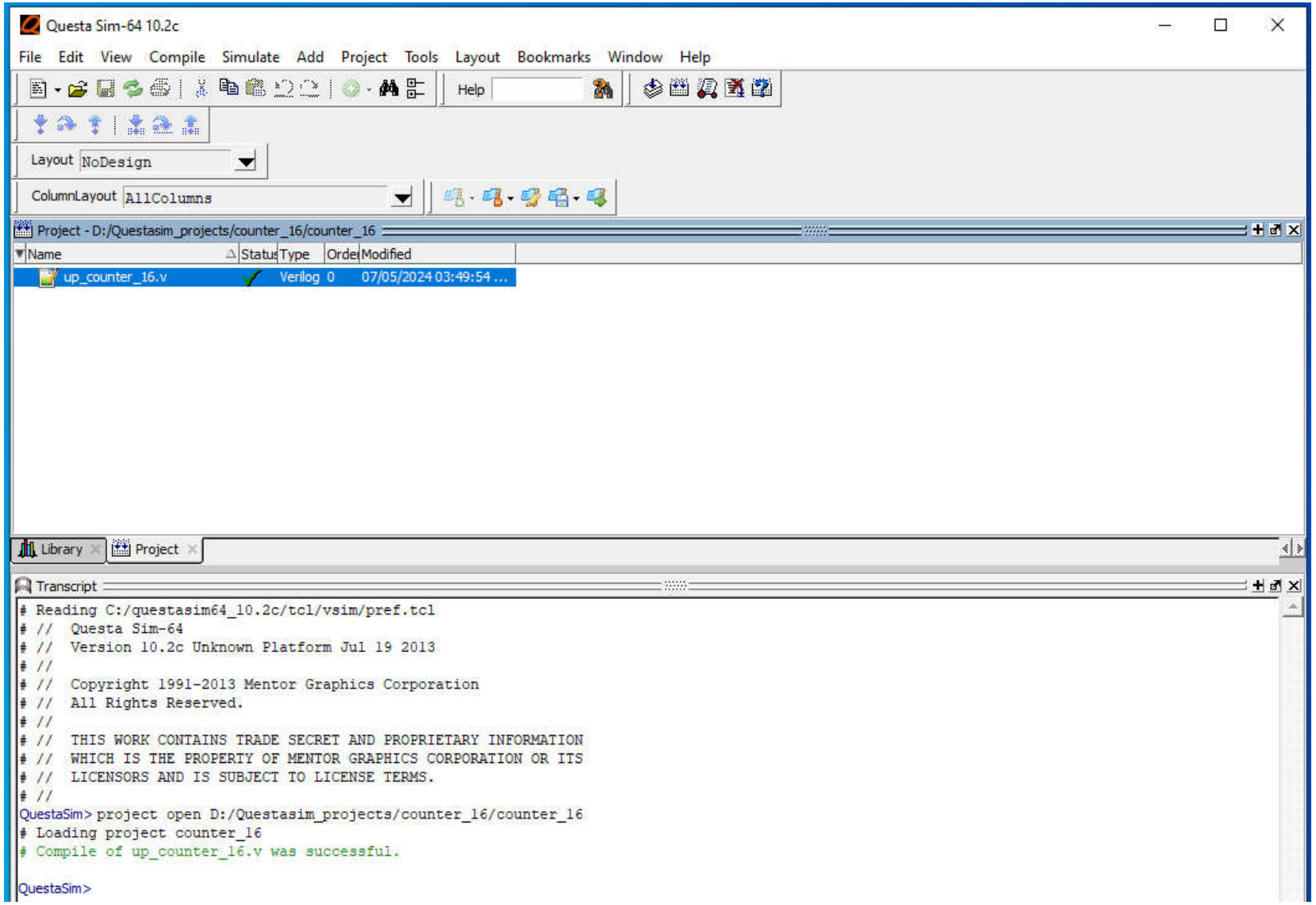
- We will create a **DO file** that
  - loads a design,
  - adds signals to the Wave window,
  - provides stimulus to those signals,
  - and then advances the simulation.

Create a new directory and copy the design file into it

- E.g., create **counter_16** directory/folder and copy **up_counter_16.v** into **it**.



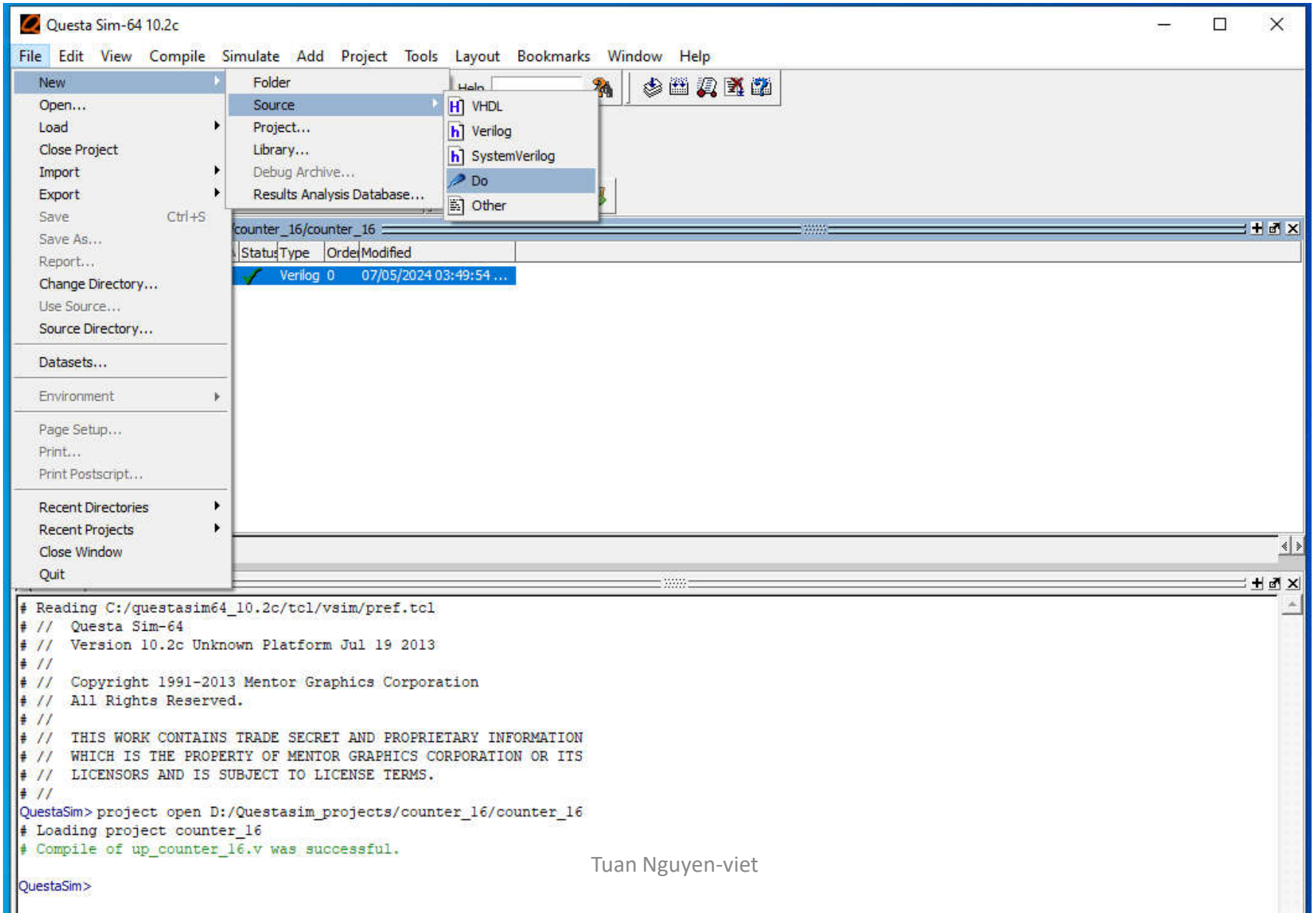
Create New Project / Add file / Compile as below



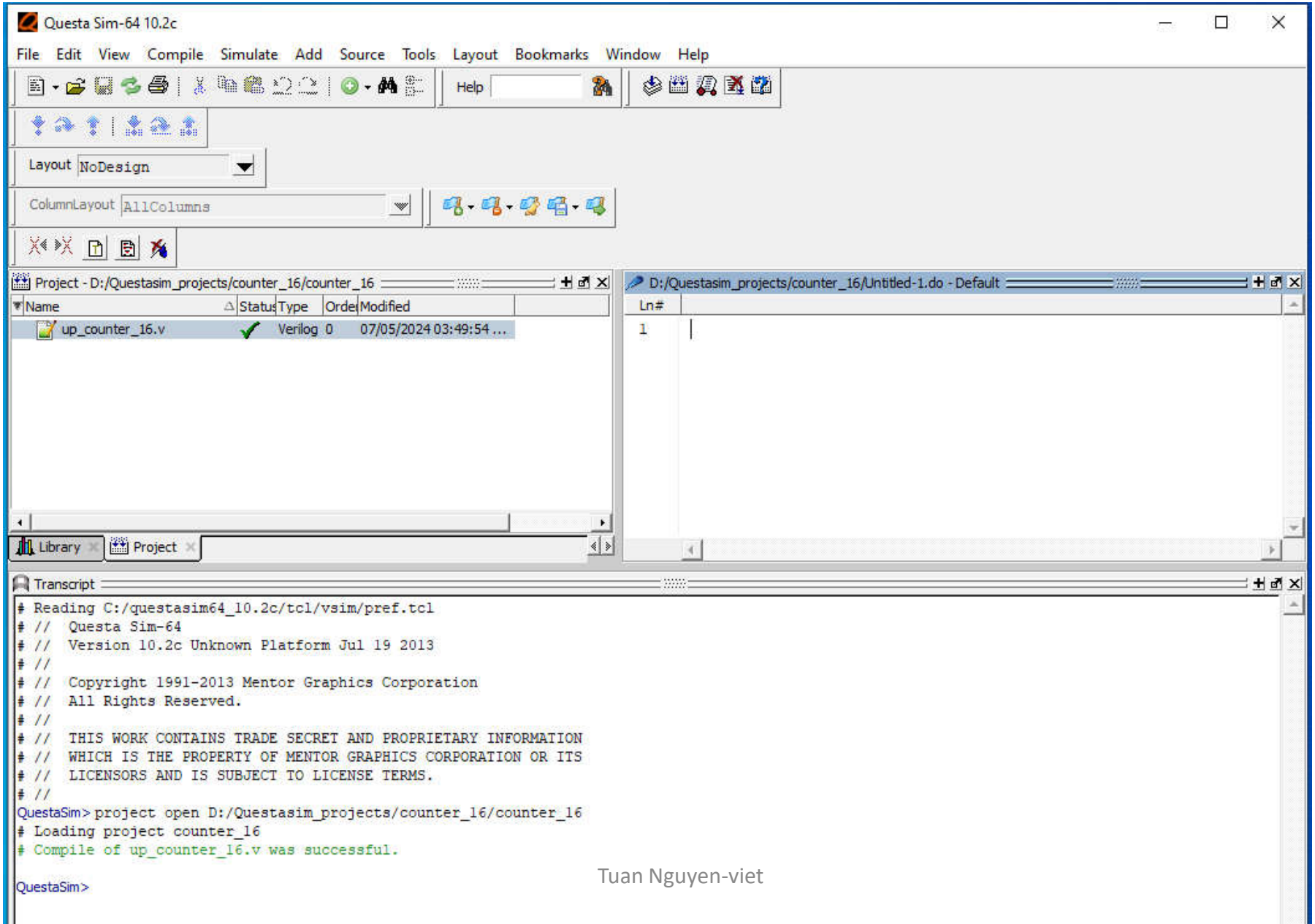
Create a DO file

- Create a **DO file** that will
  - add signals to the **Wave** window,
  - force signals,
  - and run the simulation.

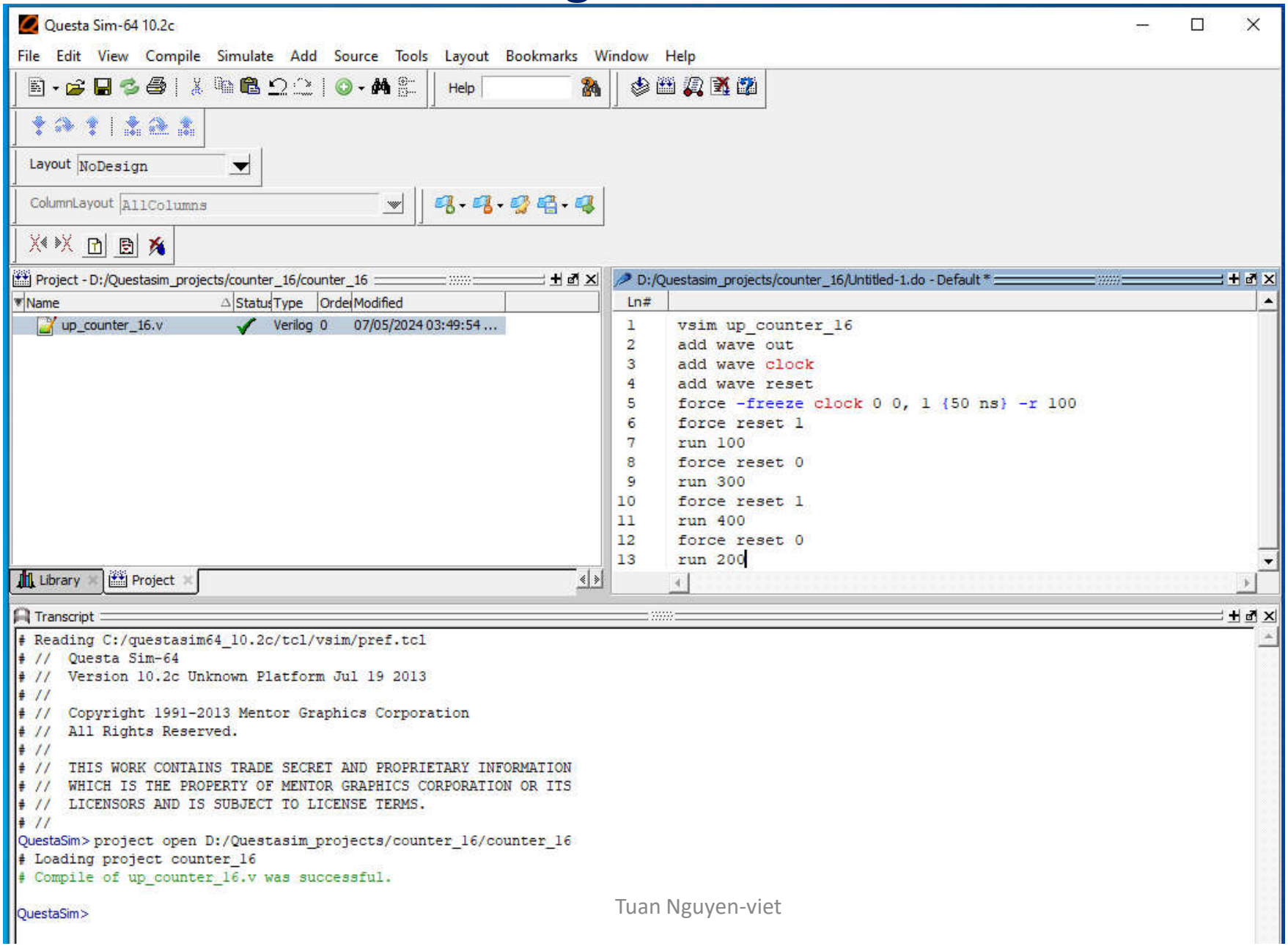
Select **File > New > Source > Do** to create a new DO file.



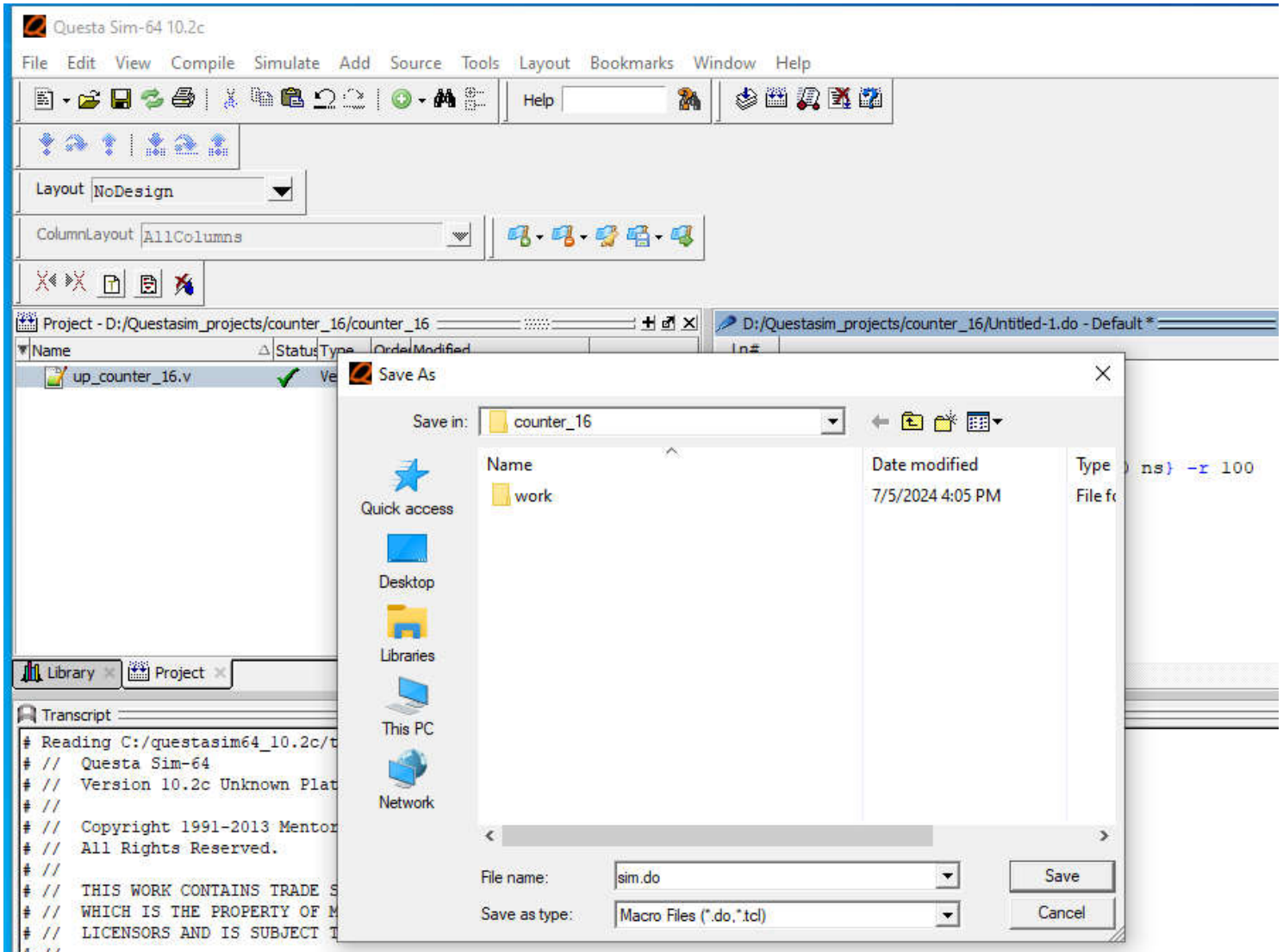
A window for DO file on RHS as below



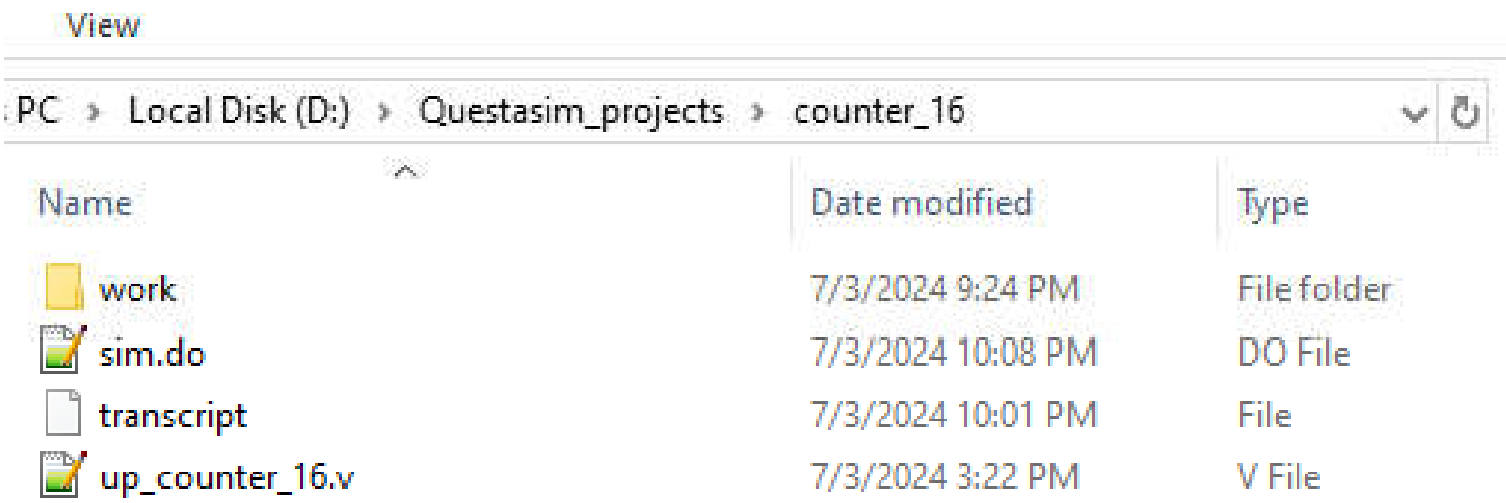
Enter the following commands into the window



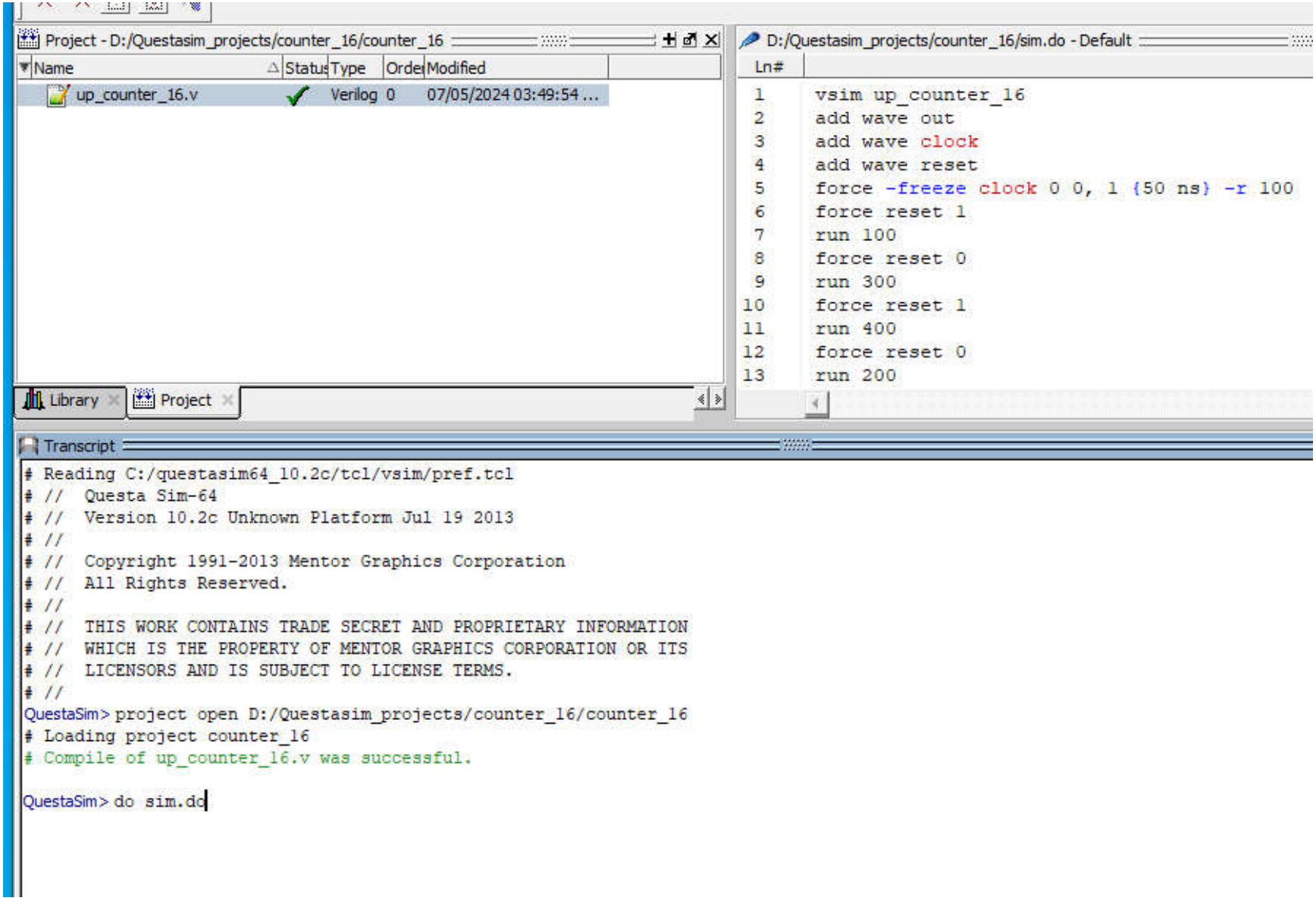
Select **File > Save As** / Name **sim.do** / Save it



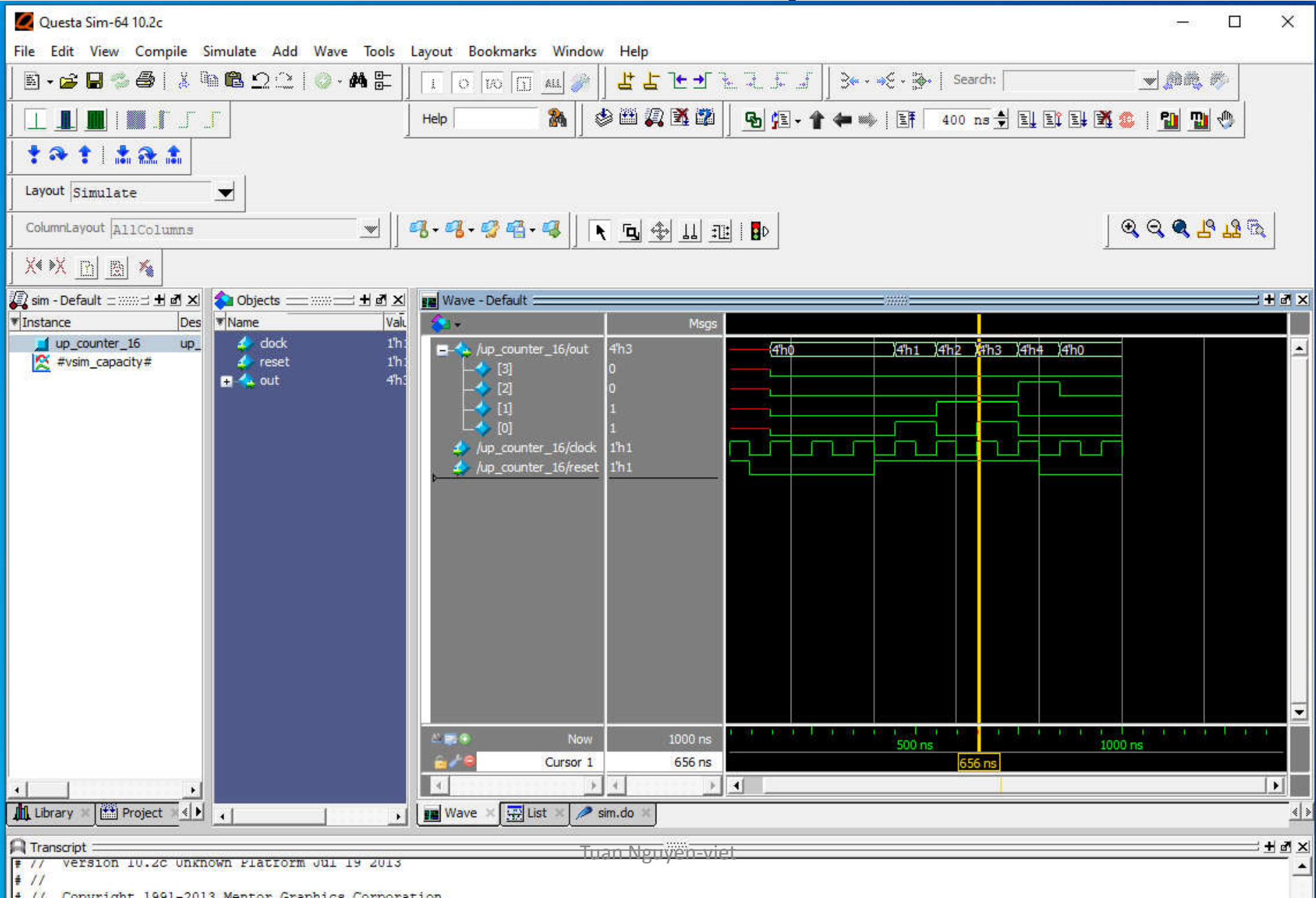
sim.do in the project directory



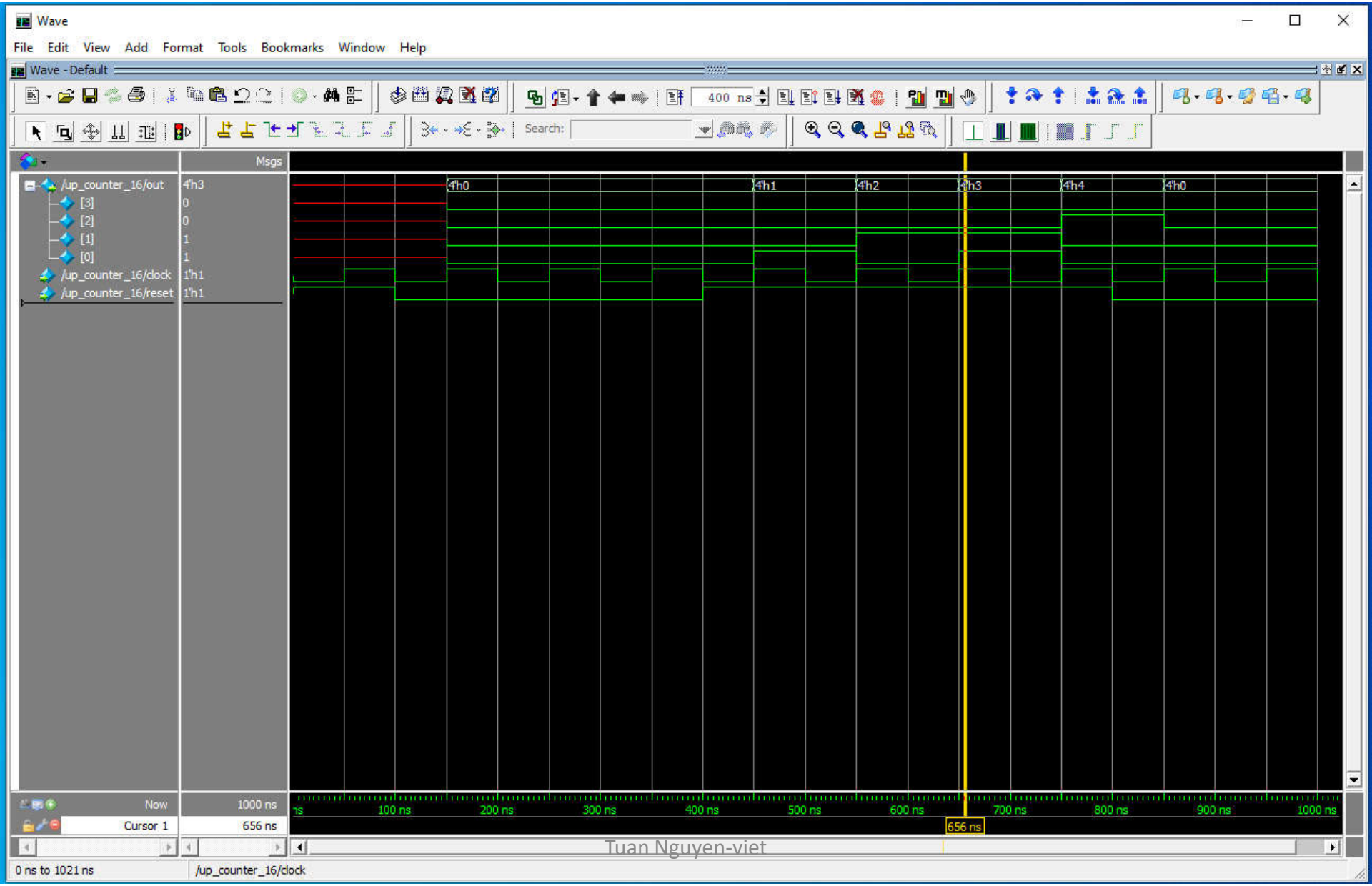
Enter **do sim.do** at the **QuestaSim>** prompt to execute



Sim automatically run



Wave window after running the DO file



Thank You