CS 501 – Internet of Things
Assignment 3

Group Members

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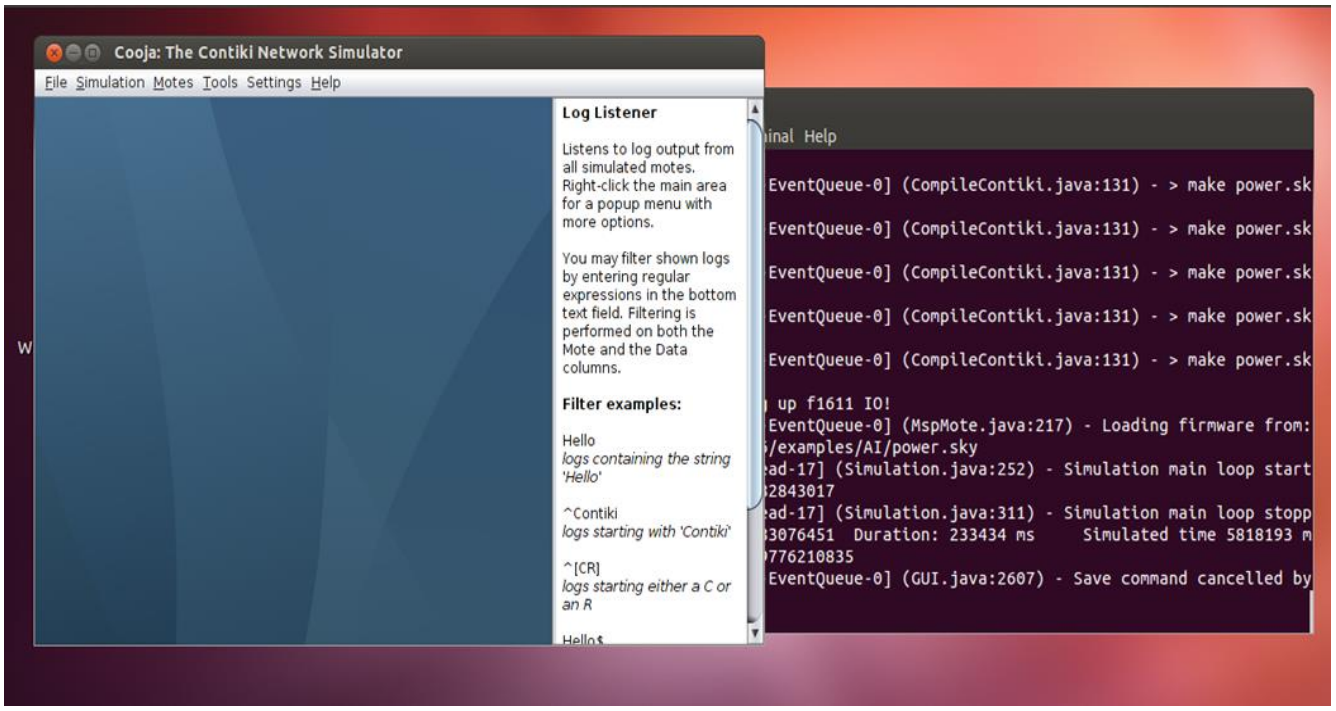
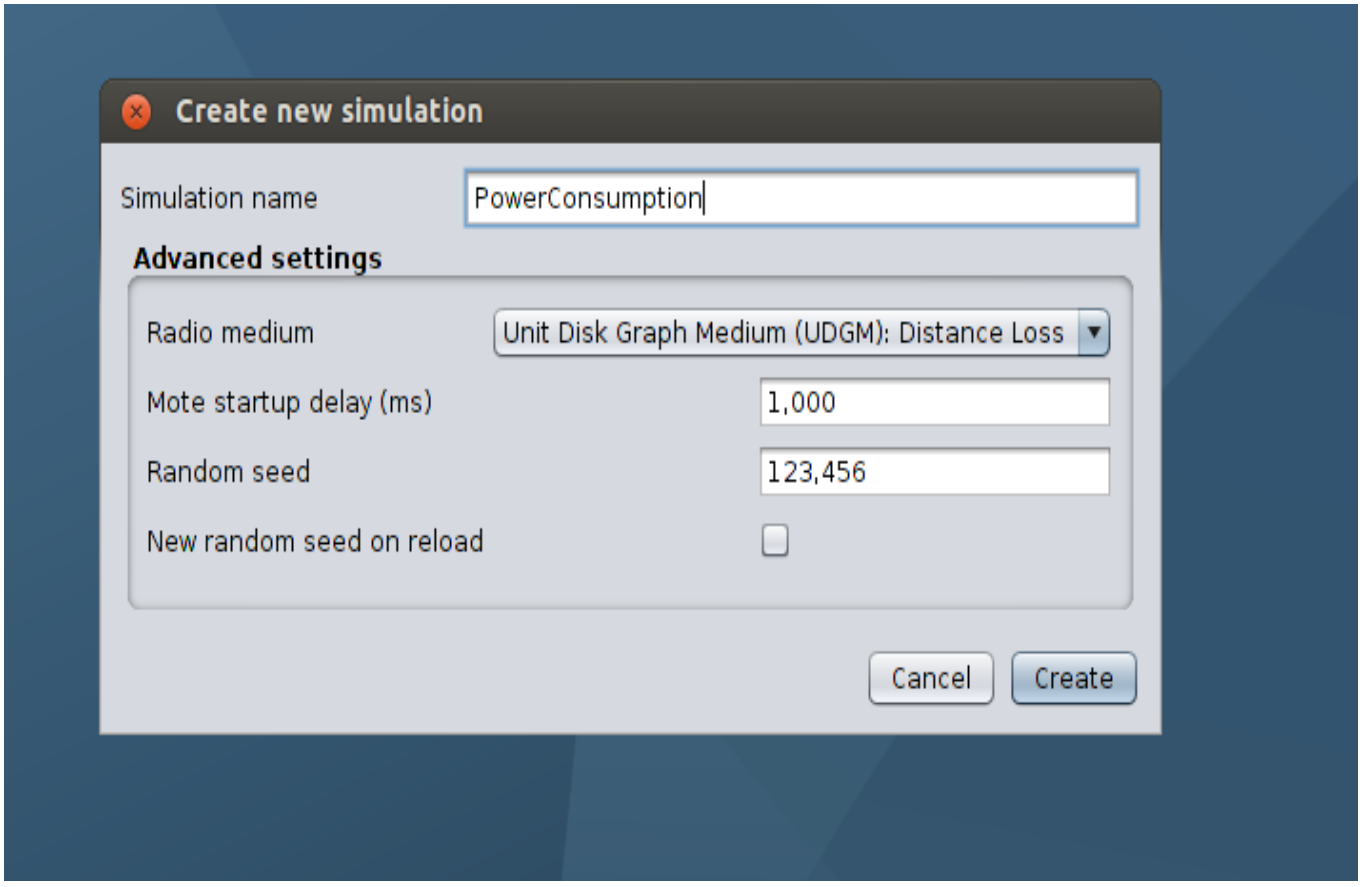
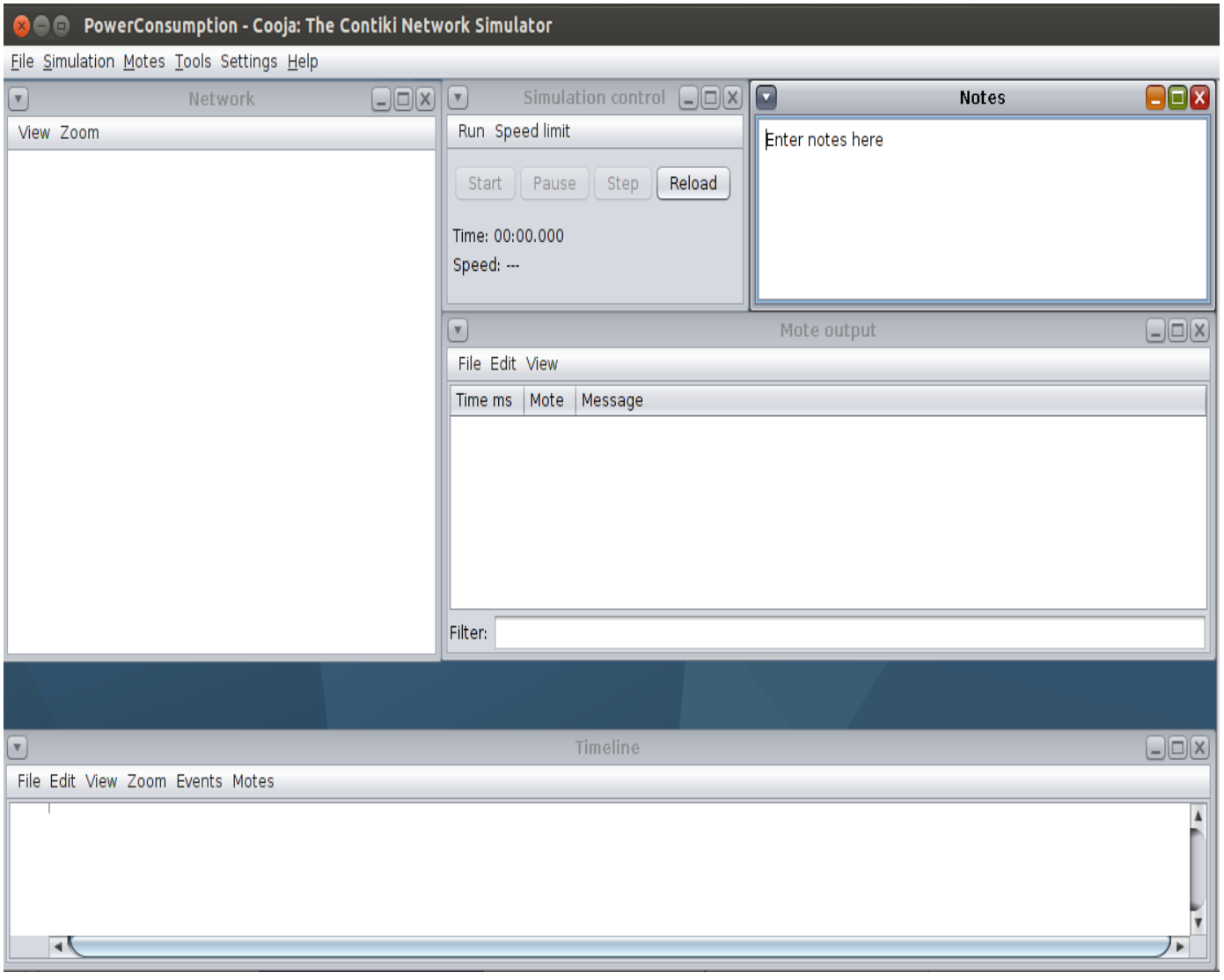
1.Click on Cooja Desktop Icon and it opens the cooja: The Contiki Network Simulator



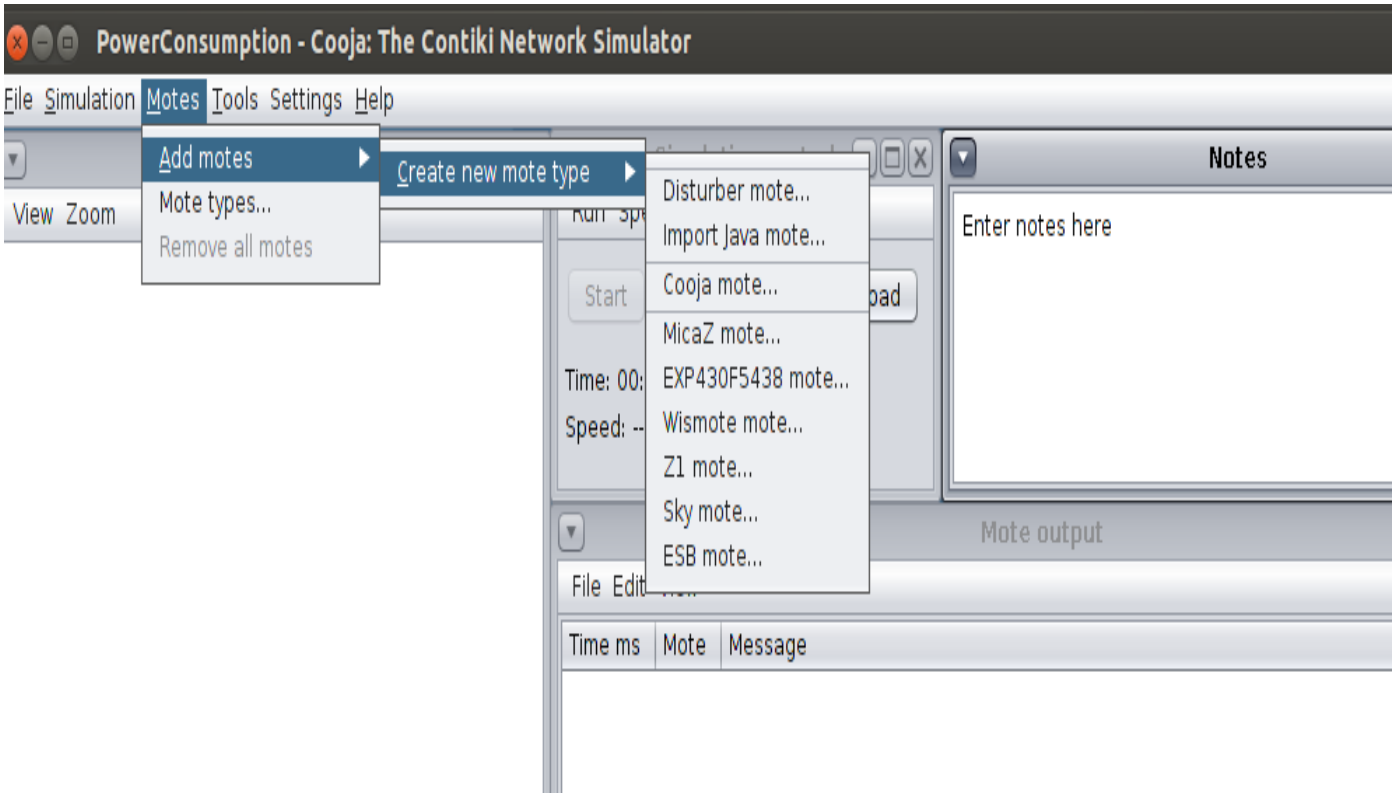
2. Click the new simulation under File menu and it opens the create new simulation dialog and name the simulation as Power Consumption as shown in the screenshot and a new simulation gets created by clicking on the create button.



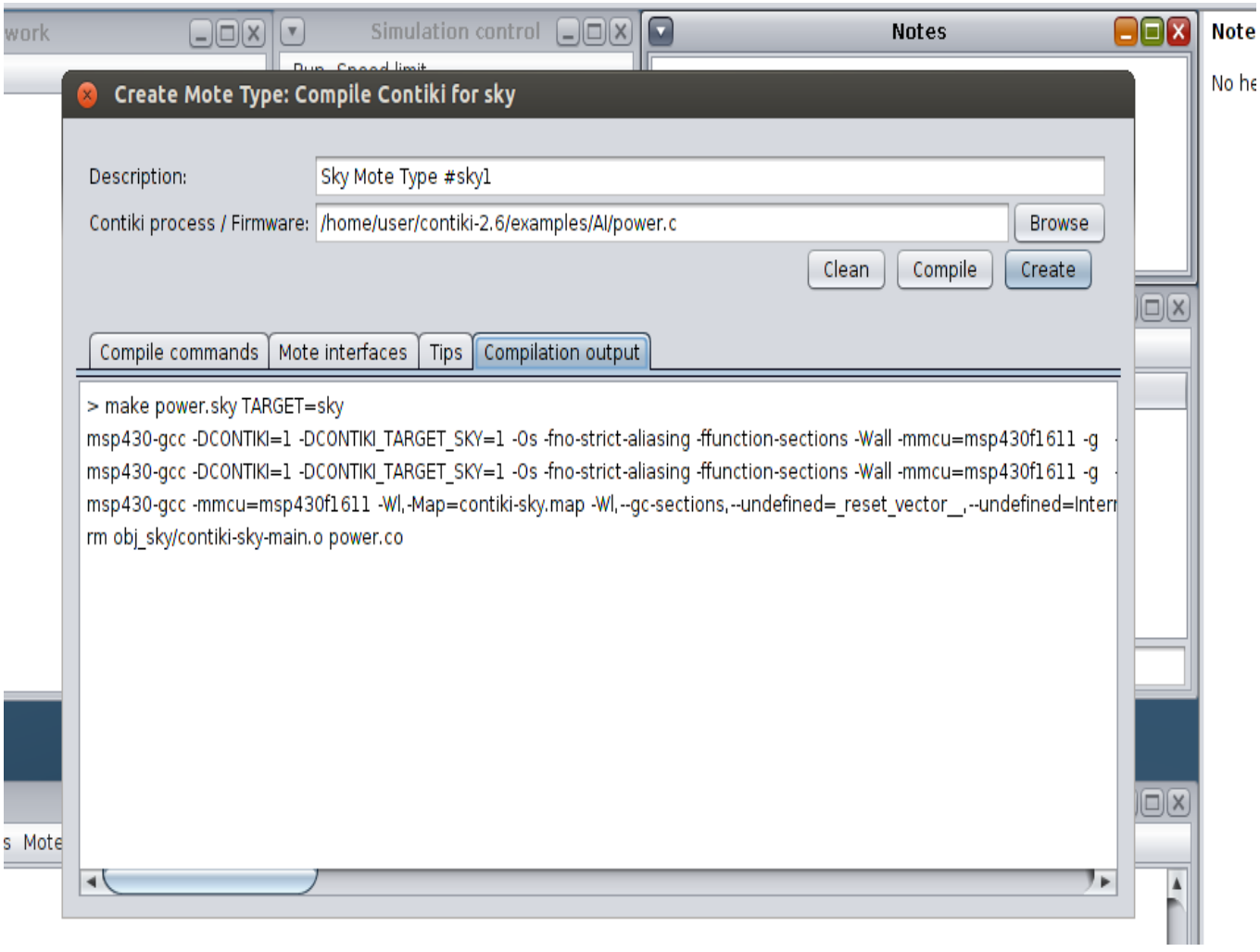
3. It brings up the new simulator window (PowerConsumption -Cooja: The Contiki Network Simulator) which has Network and motes output and Notes and Timeline and Simulation control windows.



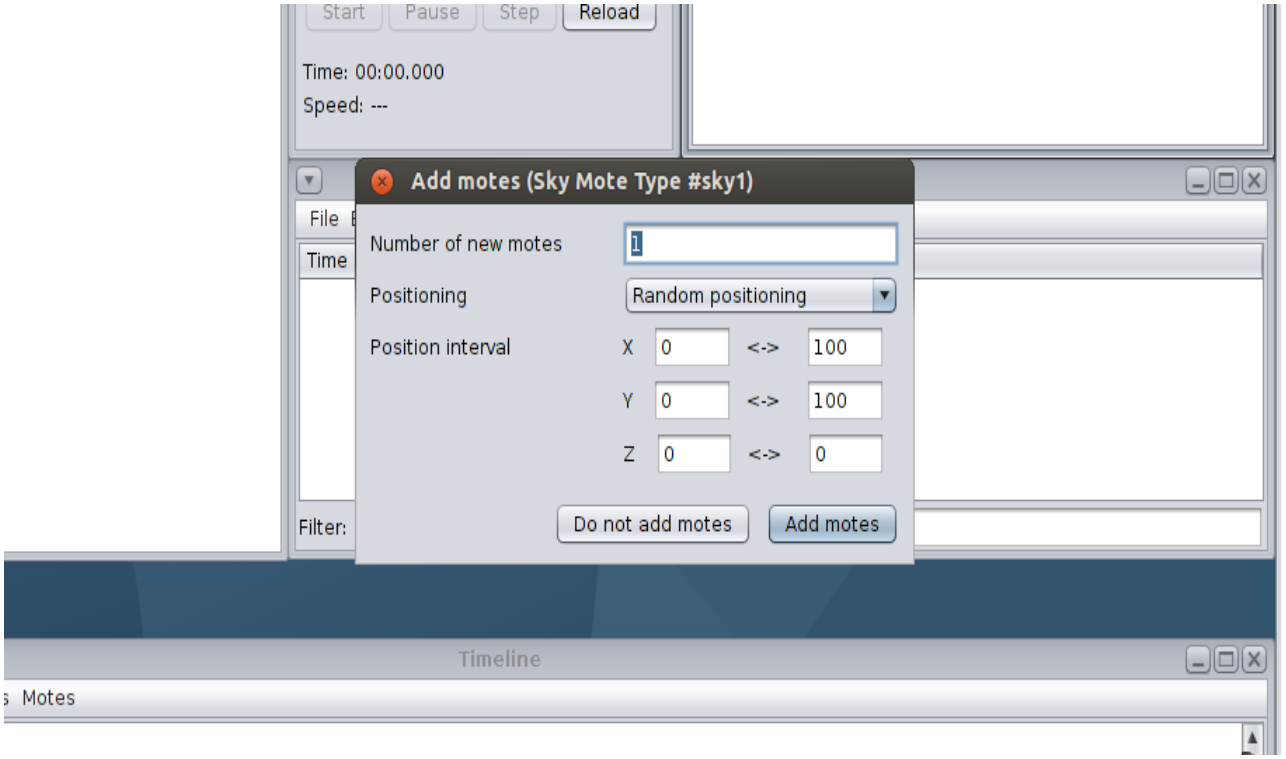
4. Click on Motes option in the simulator menu and select Add Motes->Create new moto type-> Sky mote to create sky mote type



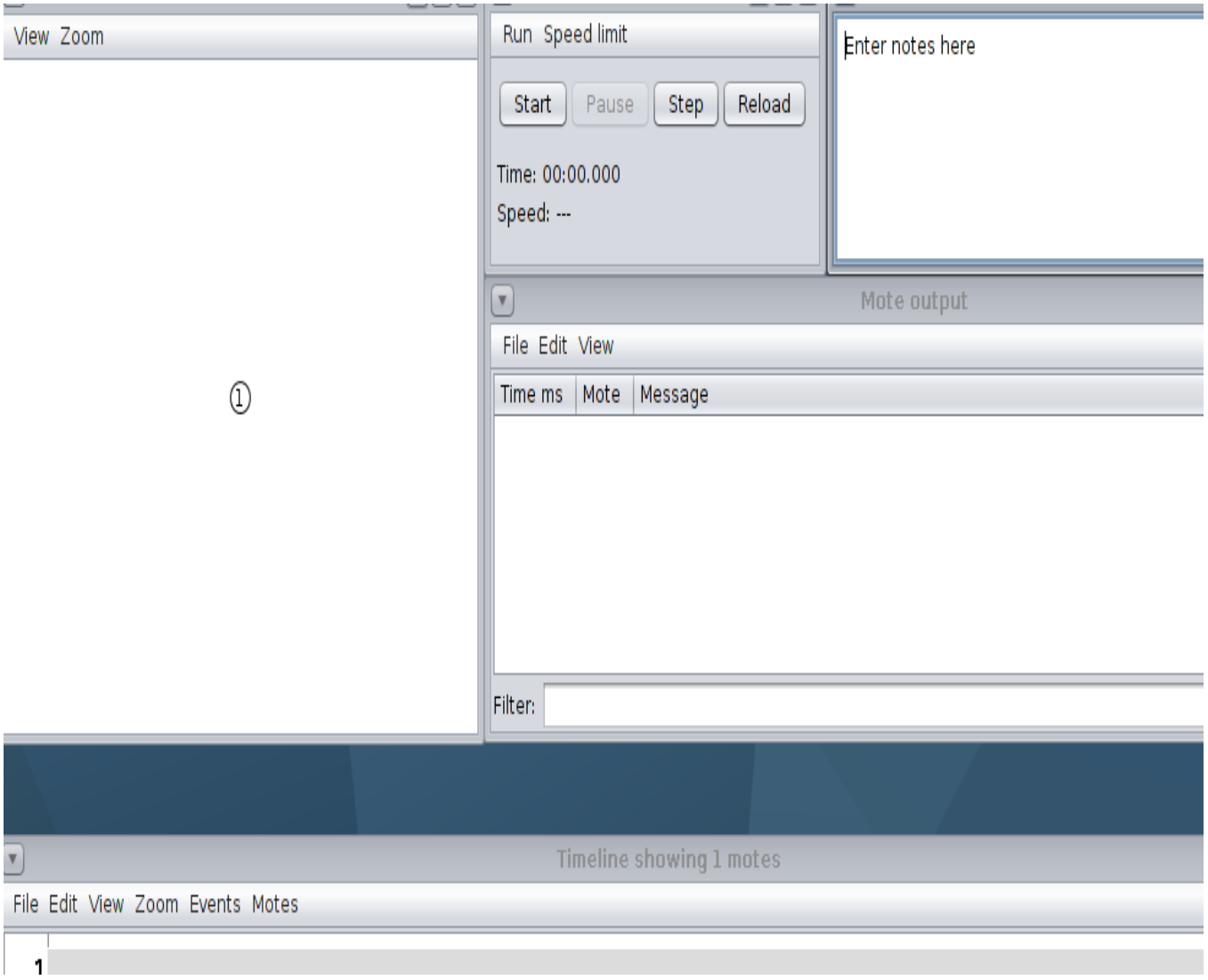
5. After selecting the above options opens Create Mote Type : Compile Contiki for sky dailog where Description name and Contiki process/Firmware is given and click the compile button and the compilation results shows in the compilation output Tab.



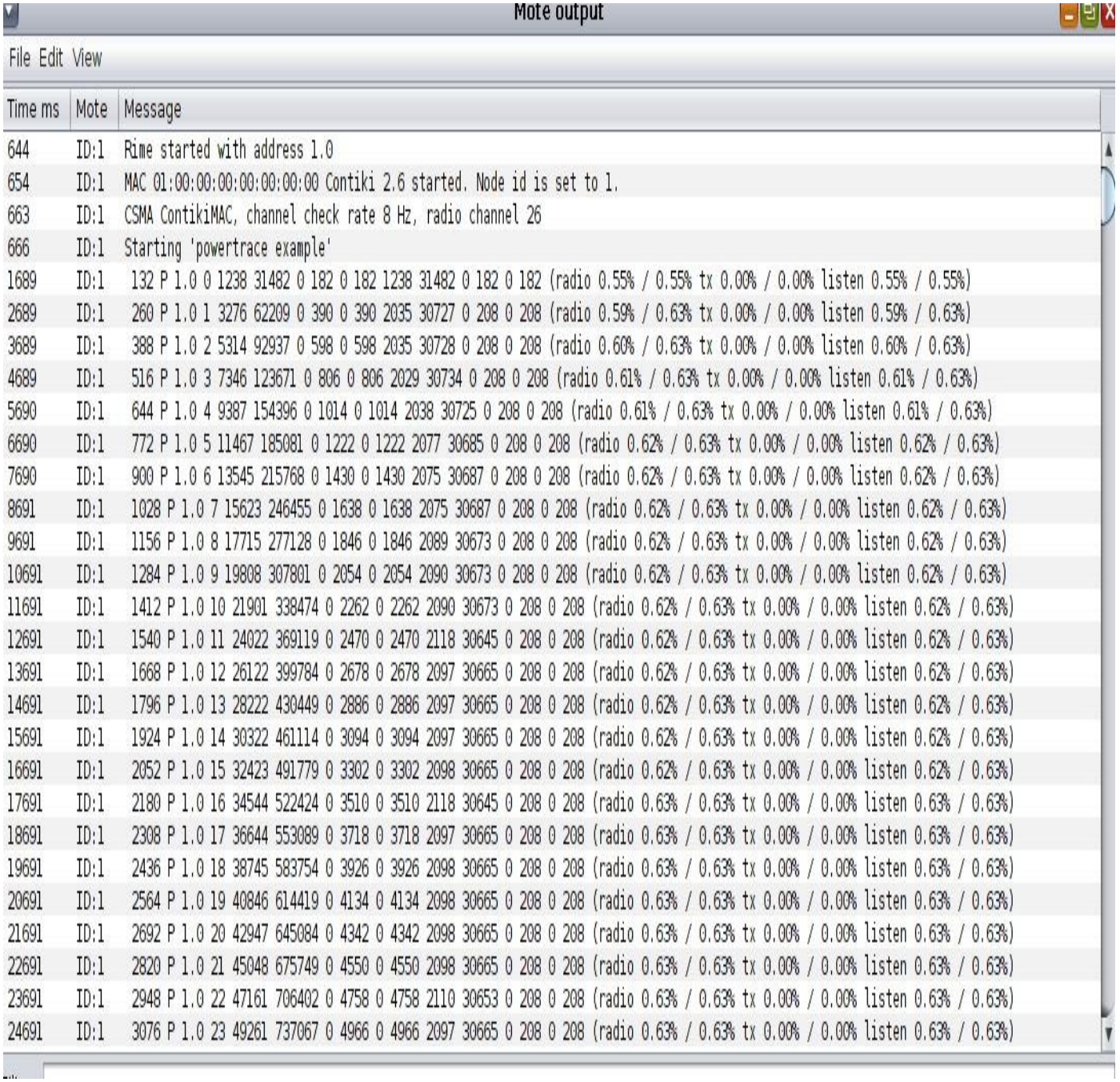
6. After successful compilation, clicking on the create button opens a dialog to enter the no of motes. no of motes entered here are 1 as shown in the screenshot.



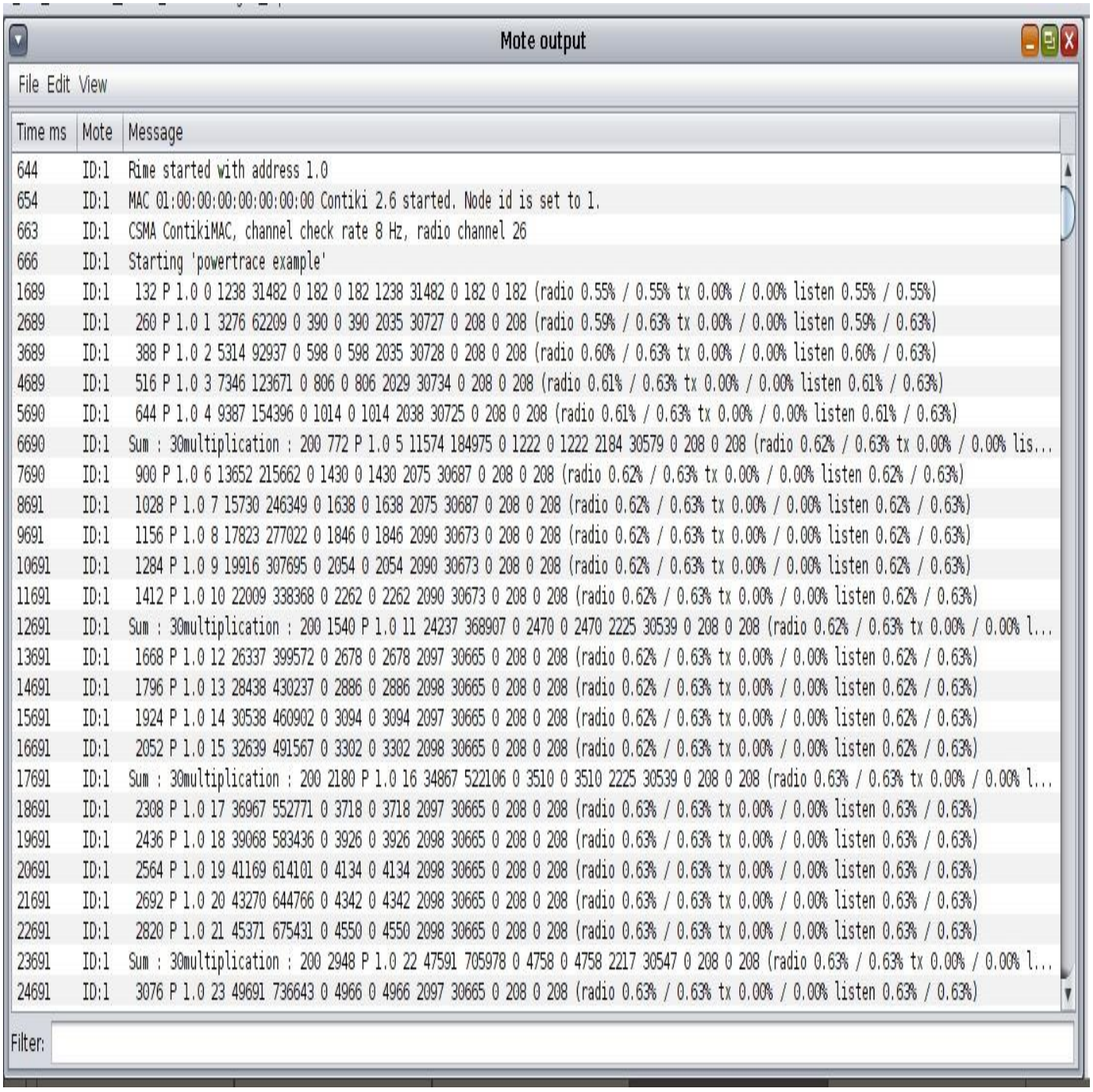
7. Click the start button in the simulation control window to start the simulation.



8. The compilation results are seen in the mote output. Here the results are showed before adding computation.



9. Here these are the compilation results which are shown after adding computation(adding two numbers & multiplying two numbers(number1 ,number2)). After adding computation we can clearly see
the increase in power consumption.



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