



## How To Execute A Program In My 8-Bit CPU

- 1) Start Logisim
- 2) Open file kan\_8bit\_CPU.circ
- 3) Right click on Program ROM (located bottom right of the circuit)
- 4) Click 'Load Image'
- 5) Select your program's raw coded file, ie: fibonacci.raw
- 6) Turn on 'Programming mode' 
- 7) Click 'Simulate' -> 'Ticks Frequency' -> '4.1KHz'
- 8) Click 'Simulate' -> 'Ticks Enabled'
- 9) Check if the pointer on Program ROM has read through the program's raw codes
- 10) Turn off 'Programming mode' 
- 11) Look for the result below the output register (left of Program ROM)

## How To Write A Program For My 8-Bit CPU

In order to write a raw coded file (\*.raw) for the 8-Bit CPU to execute, view my assembly program files (\*.asm) and the op\_code table file to understand how the program gets processed. The op\_code table provides corresponding hexadecimal values for each instruction, parameter values for the instructions and memory addresses for stored values and stored instructions are also in hexadecimal.