# Requirements:

1. 5 floors in the lift system. (ground, first, second, third, fourth, fifth)
2. Enter a lift, press button for desired floor, go to desired floor.
3. Call a lift, to a desired floor. Do operation 2.

# States:

* 3 major states, idle, running, fault.
* idle state: do nothing, wait for input
* running state: respond to the input
* fault: go to ground

lift\_state\_req = -1, means idle. The lift remains where it currently is

lift\_state\_req =-2, means fault. The lift shall go down to the zero level  
  
lift\_state\_reg = 0 to 5, means the floor level.  
  
Model needs to be improved, because the final outcome is slightly delayed by 2 time steps everytime the function ‘checkFloor()’ runs, causing delay in the output.