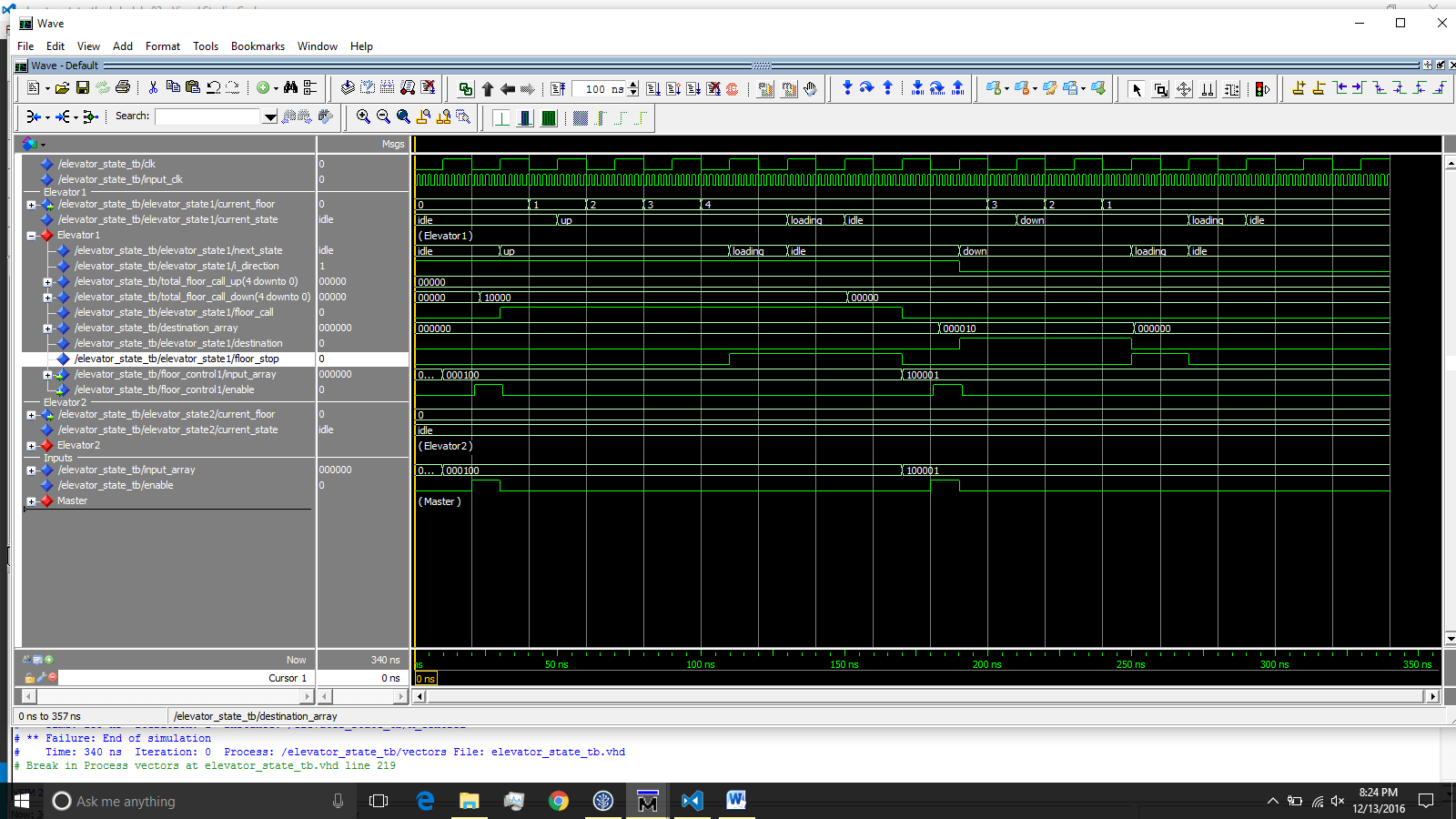
**Lab 3 – Multiple Elevators – Test Plan**

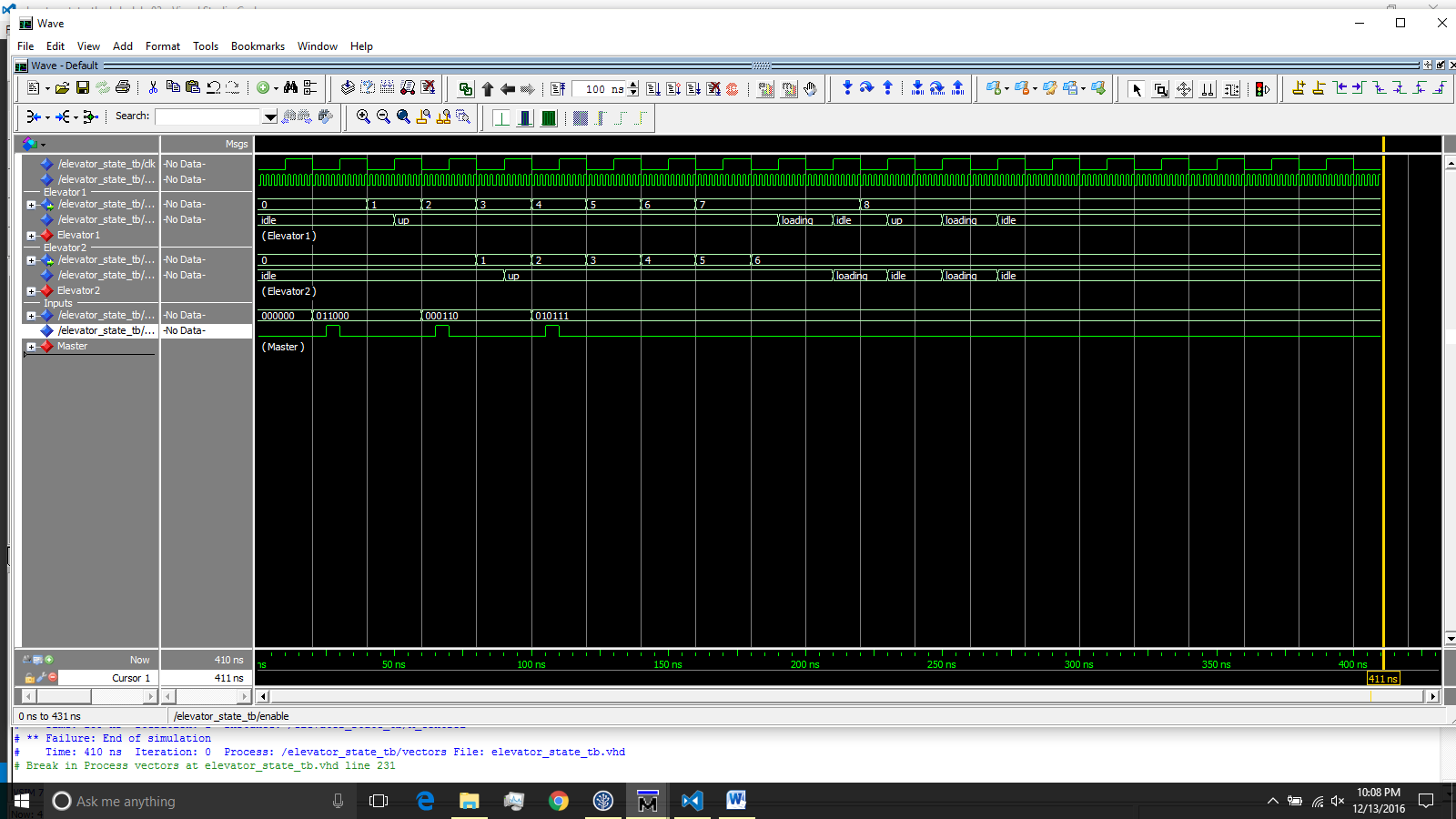
For the sake of simplicity in simulation we choose to have 2 elevators in a 4 floor building.

Case 1: Both elevators at idle on ground floor, floor call occurs at floor 4. Once the passenger is picked up they want to go down to floor 1.

Expected result: Only 1 of the two elevators receives the floor call and goes to floor, then heads to floor 1.

Case 2: Both elevators initially idle on floor 0. The following inputs are pressed:

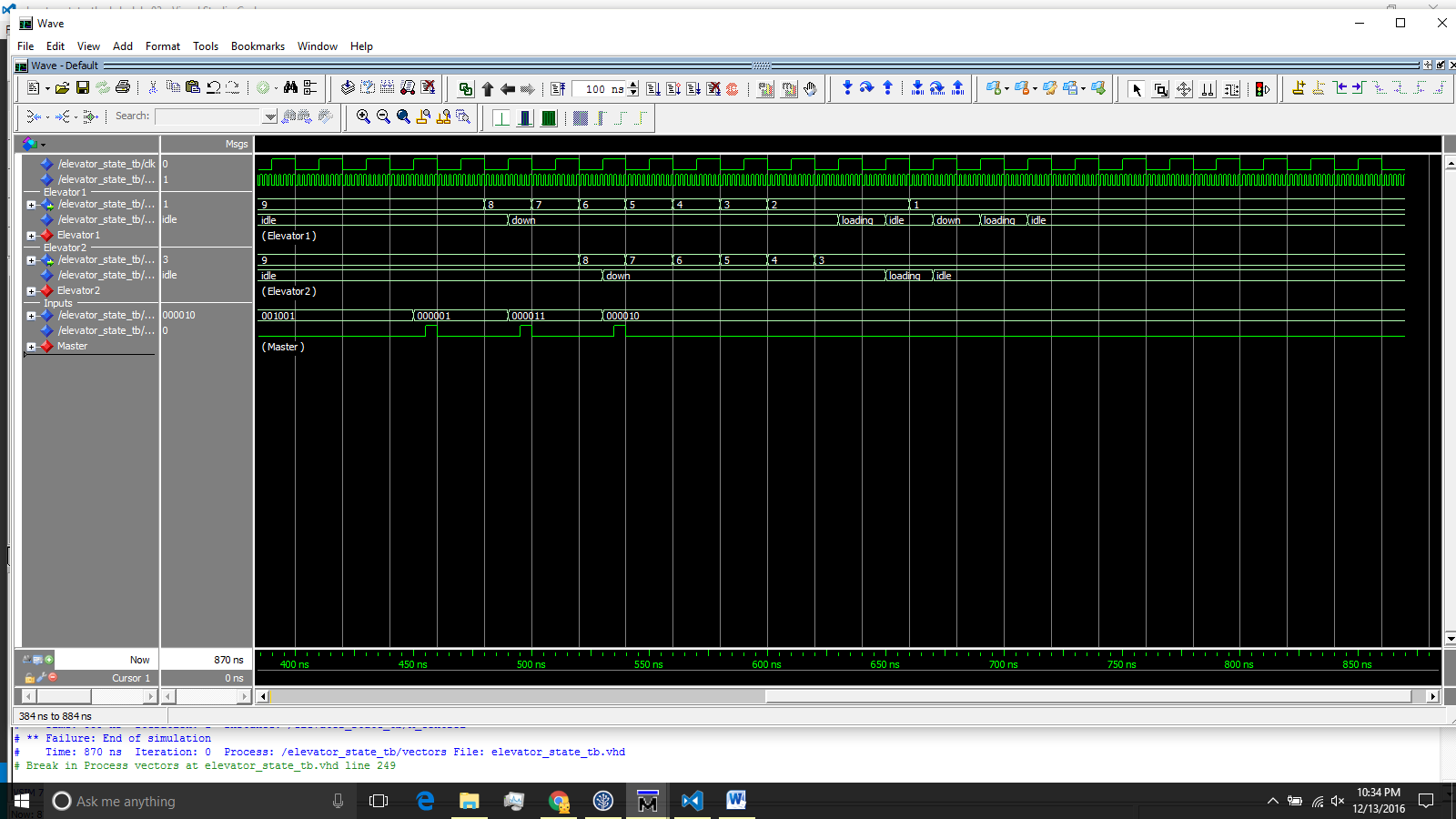
* Floor call up at floor 8
* Floor call down at floor 6
* Floor call up at floor 7

Expected result: Elevator 1 heads towards floor 8. Elevator 2 heads toward floor 6 and stops there. Elevator 1 stops at floor 7 on it’s way to floor 8.

Case 3: Both elevators start at the top floor. The following inputs are pressed:

* Floor call down at floor 1
* Floor call down at floor 3
* Floor call down at floor 2

Expected Result: Elevator 1 heads to floor 1. Elevator 2 heads to floor 3 and stops there. Elevator 1 stops at floor 2 on its way to floor 1. Then both elevators rest in the idle state.



Case 4: Both elevators start at Ground Floor. The following inputs are pressed:

* Floor call up at floor 8
* Floor call up at floor 7
* Floor call down at floor 6

Expected Result:

* Elevator 1 heads towards floor 8
* Elevator 2 heads to floor 7
  + Stops at floor 7
* Elevator 1