**Parking Lot**

1. Rung 0 Power on and Power Off
2. Rung 1 S1 to Open the gate if the count is less than 8 and the key card is placed S2 and timer.dn close the gate
3. Rung 2 S2 car get in and count one up
4. Rung 3 If the entrance gate is still open, the timer will close it.
5. Rung 4 Les instruction keep the entrance light green indicating spaces available.
6. Rung 5 Turn off the green light if the lot is full
7. Rung 6 S4 and timer.dn close exit gate S3 open the gate
8. Rung 7 S4 count down when a car exits the parking lot
9. Rung 8 close the exit gate after 20 seconds