

Rack and Pinion with (higher end mg995)servo motor - horizontal- 1 — Pseudocode

BEGIN

SETUP:

- Define L1 as limit switch (fully open)
- Define L2 as limit switch (fully closed)
- Configure L1 and L2 as input pins with pull-down
- Define motor control functions:
 - motor_stop() → stop motor
 - motor_reverse() → run motor in open direction
 - motor_forward() → run motor in close direction
- Start with motor stopped

MAIN LOOP:

1. OPENING DOOR:

- Print "Opening door..."
- Run motor in reverse (OPEN)
- WHILE (L1 is NOT triggered):
 - wait small delay
- STOP motor
- Print "Door fully open → waiting"
- Wait 2 seconds

2. CLOSING DOOR:

- Print "Closing door..."
- Run motor forward (CLOSE)
- WHILE (L2 is NOT triggered):
 - wait small delay
- STOP motor
- Print "Door fully closed → waiting"
- Wait 2 seconds

3. REPEAT loop forever

END