#define enA 9

#define in1 6

#define in2 7

#define button 4

int rotDirection = 0;

int pressed = false;

void setup() {

pinMode(enA, OUTPUT);

pinMode(in1, OUTPUT);

pinMode(in2, OUTPUT);

pinMode(button, INPUT);

// Set initial rotation direction

digitalWrite(in1, LOW);

digitalWrite(in2, HIGH);

}

void loop() {

int potValue = analogRead(A0); // Read potentiometer value

int pwmOutput = map(potValue, 0, 1023, 0 , 255); // Map the potentiometer value from 0 to 255

analogWrite(enA, pwmOutput); // Send PWM signal to L298N Enable pin

// Read button - Debounce

if (digitalRead(button) == true) {

pressed = !pressed;

}

while (digitalRead(button) == true);

delay(20);

// If button is pressed - change rotation direction

if (pressed == true & rotDirection == 0) {

digitalWrite(in1, HIGH);

digitalWrite(in2, LOW);

rotDirection = 1;

delay(20);

}

// If button is pressed - change rotation direction

if (pressed == false & rotDirection == 1) {

digitalWrite(in1, LOW);

digitalWrite(in2, HIGH);

rotDirection = 0;

delay(20);

}

}