```
// defines pins numbers
const int trigPin = D5;  //D4
const int echoPin = D6;  //D3
#define ENA_PIN D1
#define IN1_PIN D2
#define IN2_PIN D3

// defines variables
long duration;
int distance;

void setup() {
pinMode(trigPin, OUTPUT); // Sets the trigPin as an Output
pinMode(echoPin, INPUT); // Sets the echoPin as an Input
pinMode(ENA_PIN, OUTPUT);
pinMode(IN1_PIN, OUTPUT);
pinMode(IN2_PIN, OUTPUT);
Serial.begin(9600); // Starts the serial communication
}

void loop() {
// Clears the trigPin
digitalWrite(trigPin, LOW);
delayMicroseconds(2);

// Sets the trigPin on HIGH state for 10 micro seconds
digitalWrite(trigPin, HIGH);
delayMicroseconds(10);
digitalWrite(trigPin, LOW);

// Reads the echoPin, returns the sound wave travel time in microseconds
duration = pulseIn(echoPin, HIGH);

// Calculating the distance
distance= duration*0.034/2;
// Prints the distance on the Serial Monitor
Serial.print("Distance: ");
Serial.println(distance);
delay(2000);

if (distance < 30) {
    digitalWrite(IN1_PIN, HIGH);  // Set motor direction (change to LOW for reverse)
    digitalWrite(IN2_PIN, LOW  );
    analogWrite(ENA_PIN, 150);    // Set motor speed (0-255)
  } else {
    // Keep the motor stopped
    digitalWrite(IN1_PIN, HIGH);
    digitalWrite(IN2_PIN, HIGH);
    analogWrite(ENA_PIN, 200);
  }
}
```