```
//Pintu Pagar Geser

#include <IRremote.h>
#include <Password.h>
#include <Keypad.h>

Password password = Password( "1234" );

const byte ROWS = 4; // Four rows
const byte COLS = 4; //  columns
// Define the Keymap
char keys[ROWS][COLS] = {
  {'1','2','3','A'},
  {'4','5','6','B'},
  {'7','8','9','C'},
  {'*','0','#','D'}
};

byte rowPins[ROWS] = { 36,34,32,30 };// Connect keypad ROW0, ROW1, ROW2
and ROW3 to these Arduino pins.
byte colPins[COLS] = { 28,26,24,22 };// Connect keypad COL0, COL1 and COL2 to
these Arduino pins.


// Create the Keypad
Keypad keypad = Keypad( makeKeymap(keys), rowPins, colPins, ROWS, COLS );


int RECV_PIN = 11; // ir remote
int led1     = 12; // led 1
int led2     = 13; // led 2
int enA      = 10; //pwm driver L289
int in1      = 9;
int in2      = 8;
int limit1   = 7; //limit switch 1
int limit2   = 6; //limit switch 2
int button1  = 5;
int button2  = 4;
int limitState1 = 0;
int limitState2 = 0;
int buttonState1 = 0;
int buttonState2 = 0;
```

```
int led = 53;
IRrecv irrecv(RECV_PIN);

decode_results results;


void setup()
{
  pinMode (enA, OUTPUT);
  pinMode (in1, OUTPUT);
  pinMode (in2, OUTPUT);
  pinMode (limit1, INPUT);
  pinMode (limit2, INPUT);
  pinMode (button1, INPUT);
  pinMode (button2, INPUT);
  pinMode (led, OUTPUT);
  irrecv.enableIRIn();
  Serial.begin(9600);
  keypad.addEventListener(keypadEvent);
}

void loop() {
  keypad.getKey();

  limitState1 = digitalRead (limit1);
  limitState2 = digitalRead (limit2);
  buttonState1 = digitalRead (button1);
  buttonState2 = digitalRead (button2);

  if (limitState1 == HIGH) {
    digitalWrite (led1, LOW);
    digitalWrite (led2, LOW);
    digitalWrite (in1, LOW);
    digitalWrite (in2, LOW);
    digitalWrite (led, LOW);

  }
  else if (limitState2 == HIGH){
    digitalWrite (led1, LOW);
    digitalWrite (led2, LOW);
    digitalWrite (in1, LOW);
    digitalWrite (in2, LOW);
    digitalWrite (led, LOW);
```

```
  }

  if (buttonState1 == HIGH) {
    digitalWrite (led1, HIGH);
    digitalWrite (led2, LOW);
    digitalWrite (in1, HIGH);
    digitalWrite (in2, LOW);
    while (digitalRead(limit1)==HIGH);
  }
  else if (buttonState2 == HIGH) {
    digitalWrite (led2, HIGH);
    digitalWrite (led1, LOW);
    digitalWrite (in1, LOW);
    digitalWrite (in2, HIGH);
    while (digitalRead(limit2)==HIGH);
  }

  if (irrecv.decode(&results)) {
    Eksekusi ();
    Serial.println(results.value);
    irrecv.resume();
  }
}

void Eksekusi (){
  switch(results.value) {

    case 16724175 : // Tombol 1
    //buka gate
    digitalWrite (led1, HIGH);
    digitalWrite (led2, LOW);
    digitalWrite (in1, HIGH);
    digitalWrite (in2, LOW);
    while (digitalRead(limit1)==HIGH);
    Serial.println ("Tombol 1 Ditekan");
    break;


    case 16718055 : //Tombol 2
    //tutup gate
    digitalWrite (led2, HIGH);
    digitalWrite (led1, LOW);
    digitalWrite (in1, LOW);
```

```
    digitalWrite (in2, HIGH);
    while (digitalRead(limit2)==HIGH);
    Serial.println ("Tombol 2 Ditekan");
    break;


    case 16743045 : //Tombol 3
    digitalWrite (in1, LOW);
    digitalWrite (in2, LOW);
    Serial.println ("Tombol 3 Ditekan");
    break;

    case 16716015 : //Tombol 4
    Serial.println ("Tombol 4 Ditekan");
    break;

    case 16726215 : //Tombol 5
    Serial.println ("Tombol 5 Ditekan");
    break;

    case 16734885 : //Tombol 6
    Serial.println ("Tombol 6 Ditekan");
    break;

    case 16728765 : //Tombol 7
    Serial.println ("Tombol 7 Ditekan");
    break;

    case 16730805 : //Tombol 8
    Serial.println ("Tombol 8 Ditekan");
    break;

    case 16732845 : //Tombol 9
    Serial.println ("Tombol 9 Ditekan");
    break;
  }

}


void keypadEvent(KeypadEvent eKey){
  switch (keypad.getState()){
    case PRESSED:
```

```
  Serial.print("Pressed: ");
  Serial.println(eKey);
  switch (eKey){
    case '*': checkPassword(); break;
    case '#': password.reset(); break;
    default: password.append(eKey);
     }
  }
}

void checkPassword(){
  if (password.evaluate()){
    Serial.println("Success");
    digitalWrite (in1, HIGH);
    digitalWrite (in2, LOW);
    digitalWrite (led, HIGH);
    while (digitalRead(limit1)==HIGH);
    //Add code to run if it works
  }else{
  }
}
```