CODE FOR SMART PUBLIC AUTOMATION SYSTEM

```
int a = 0, b = 0, p;
int v, i, n, s, B, k, d, c;
void setup() {
 pinMode(A0, INPUT); //ldr
 pinMode(8, INPUT);
                       //ir1
 pinMode(9, INPUT);
 pinMode(7, INPUT);
 pinMode(2, INPUT);
 pinMode(6, OUTPUT); //led1
  pinMode(10, OUTPUT); //led2
 pinMode(11, OUTPUT); //led3
 pinMode(5, OUTPUT); //led4
 pinMode(12, OUTPUT); //relay
  Serial.begin(9600);
void loop() {
LDR:
 p = analogRead(A0);
 Serial.println(p);
 if (p > 700) {
   digitalWrite(12, LOW);
ir1:
    int IRVALUE1 = digitalRead(8);
    Serial.println(IRVALUE1);
    if (IRVALUE1 == 0) {
      analogWrite(6, 100);
      v = digitalRead(9);
      if (v == 0) {
        analogWrite(10, 100);
      if (v == 1) {
       analogWrite(10, 0);
      i = digitalRead(7);
      if (i == 0) {
        analogWrite(11, 100);
      if (i == 1) {
        analogWrite(11, 0);
      c = digitalRead(2);
      if (c == 0) {
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analogWrite(5, 100);
      if (c == 1) {
        analogWrite(5, 0);
      if (b == 500) {
        analogWrite(6, 1000);
        p = analogRead(A0);
        if (p < 100) {
          goto LDR;
      b++;
      Serial.println(b);
      p = analogRead(A0);
      if (p < 100) {
        goto LDR;
      goto ir1;
    if (a == 1) {
      analogWrite(6, 80);
      delay(250);
      analogWrite(6, 75);
      delay(100);
      analogWrite(6, 50);
      delay(50);
      analogWrite(6, 0);
    a = 0;
ir2:
    int IRVALUE2 = digitalRead(9);
    Serial.println(IRVALUE2);
    if (IRVALUE2 == 0) {
      analogWrite(10, 100);
      v = digitalRead(8);
      if (v == 0) {
        analogWrite(6, 100);
        analogWrite(6, 0);
      i = digitalRead(7);
      if (i == 0) {
        analogWrite(11, 100);
        analogWrite(11, 0);
      c = digitalRead(2);
      if (c == 0) {
        analogWrite(5, 100);
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```
if (c == 1) {
        analogWrite(5, 0);
      if (b == 500) {
        analogWrite(10, 1000);
        p = analogRead(A0);
        if (p < 100) {
          goto LDR;
        goto ir2;
      b++;
      a = 1;
     Serial.println(b);
      p = analogRead(A0);
      if (p < 100) {
        goto LDR;
      goto ir2;
    if (a == 1) {
      analogWrite(10, 80);
      delay(250);
      analogWrite(10, 75);
      delay(100);
      analogWrite(10, 50);
      delay(50);
      analogWrite(10, 0);
    a = 0;
ir3:
    int IRVALUE3 = digitalRead(7);
    Serial.println(IRVALUE3);
    if (IRVALUE3 == 0) {
      analogWrite(11, 100);
      v = digitalRead(8);
      if (v == 0) {
        analogWrite(6, 100);
        analogWrite(6, 0);
      i = digitalRead(9);
      if (i == 0) {
        analogWrite(10, 100);
        analogWrite(10, 0);
      c = digitalRead(2);
      if (c == 0) {
        analogWrite(5, 100);
```

```
if (c == 1) {
       analogWrite(5, 0);
      if (b == 500) {
       analogWrite(11, 1000);
        p = analogRead(A0);
       if (p < 100) {
          goto LDR;
       goto ir3;
      b++;
      Serial.println(b);
      p = analogRead(A0);
      if (p < 100) {
       goto LDR;
      goto ir3;
      analogWrite(11, 80);
      delay(250);
     analogWrite(11, 75);
      delay(100);
      analogWrite(11, 50);
      delay(50);
      analogWrite(11, 0);
    a = 0;
ir4:
    int IRVALUE4 = digitalRead(2);
    Serial.println(IRVALUE4);
    if (IRVALUE4 == 0) {
     analogWrite(5, 100);
      v = digitalRead(8);
      if (v == 0) {
       analogWrite(6, 100);
       analogWrite(6, 0);
      i = digitalRead(9);
       analogWrite(10, 100);
        analogWrite(10, 0);
```

```
c = digitalRead(7);
    if (c == 0) {
      analogWrite(11, 100);
    if (c == 1) {
      analogWrite(11, 0);
    if (b == 500) {
     analogWrite(5, 1000);
      p = analogRead(A0);
      if (p < 100) {
        goto LDR;
      goto ir4;
    b++;
    a = 1;
    Serial.println(b);
    p = analogRead(A0);
    if (p < 100) {
      goto LDR;
    goto ir4;
   analogWrite(5, 80);
   delay(250);
   analogWrite(5, 75);
    delay(100);
   analogWrite(5, 50);
delay(50);
   analogWrite(5, 0);
 a = 0;
 goto LDR;
digitalWrite(12, HIGH);
analogWrite(10, 0);
analogWrite(11, 0);
analogWrite(6, 0);
  analogWrite(5, 0);
```