Home automation code

float x, y, z, temp;

void setup()

{

pinMode (8, INPUT);

pinMode (5, OUTPUT);

pinMode (6, OUTPUT);

pinMode (A5, INPUT);

pinMode (A4, INPUT);

Serial.begin(9600);

}

void loop()

{

x= digitalRead(8);

y= analogRead(A5);

z= analogRead (A4);

Serial.println(x);

Serial.println(y);

Serial.println(z);

temp = (double)z / 1024;

temp = temp \*5;

temp= temp - 0.5;

temp = temp\*100;

if ((x>0))

{

if ((y<550) && (temp>30))

{

digitalWrite(5, HIGH);

digitalWrite(6, HIGH);

}

else if((y<550) && (temp<30))

{

digitalWrite(5, HIGH);

digitalWrite(6, LOW);

}

else if ((y>550) && (temp>30))

{

digitalWrite(5, LOW);

digitalWrite(6, HIGH);

}

else if ((y>550) && (temp<30))

{

digitalWrite(5, LOW);

digitalWrite(6, LOW);

}

}

else

{

digitalWrite(5, LOW);

digitalWrite(6, LOW);

}

}