Int LED1 = 12;

Int LED2 = 11;

Int buzzer = 10;

Int smoke = A5;

Int bulb = 2;

Int fan = 3;

Int smokeThreshold = 500;

Int inputPir = 9;

Int baselineTemp = 0;

Int celsius = 0;

Int val = 0;

Void setup() {

pinMode(LED1, OUTPUT);

pinMode(LED2, OUTPUT);

pinMode(buzzer, OUTPUT);

pinMode(smoke, INPUT);

pinMode(inputPir, INPUT);

pinMode(bulb, OUTPUT);

pinMode(fan, OUTPUT);

Serial.begin(9600);

}

Void loop() {

Int analogSensor = analogRead(smoke);

Val = digitalRead(inputPir);

baselineTemp = 40;

celsius = map(((analogRead(A0) – 20) \* 3.04), 0, 1023, -40, 125);

Serial.print(“ TEMP: “);

Serial.print(celsius);

Serial.print(“ C, “);

If (celsius < 25) {

digitalWrite(fan, LOW);

}

If (celsius > 25) {

digitalWrite(fan, HIGH);

}

Serial.print(“Co2: “);

Serial.print(analogSensor);

If (analogSensor > smokeThreshold)

{

digitalWrite(LED1, HIGH);

digitalWrite(LED2, LOW);

tone(buzzer, 1000, 350);

}

Else

{

digitalWrite(LED1, LOW);

digitalWrite(LED2, HIGH);

noTone(buzzer);

}

Delay(100);

Serial.print(“, PIR: “);

Serial.println(val);

If(val == HIGH)

{

digitalWrite(bulb, HIGH);

delay(2000);

}

Else

{

digitalWrite(bulb, LOW);

delay(300);

}

}