```
int trig = 2;
int echo = 3;
void setup()
  pinMode(trig,OUTPUT);
  pinMode(echo, INPUT);
  Serial.begin(9600);
  pinMode(7,OUTPUT);
  pinMode(8,OUTPUT);
  pinMode(13, INPUT);
  pinMode(1,OUTPUT);
void loop()
  int i = 0;
  for( i = 0; i < 5; i++){
    digitalWrite(trig,LOW);
    digitalWrite(trig, HIGH);
    delayMicroseconds(10);
    digitalWrite(trig,LOW);
    float dur = pulseIn(echo, HIGH);
    float dist = (dur*0.0343)/2;
    Serial.print("Distance");
    Serial.println(dist);
    if(dist>=100){
      digitalWrite(7,HIGH);
      delay(100);
    else{
      digitalWrite(7,LOW);
      delay(100);
    }
  int j = 0;
  for (j = 0; j < 5; j++) {
    double a=analogRead(A1);
    Serial.print("Adc Value:");
    Serial.println(a);
    double v= a/1024;
    double tvolt= v*5;
    Serial.print("temp value voltage:");
    Serial.println(tvolt);
    double o = tvolt-0.5;
    double t = o*100;
    Serial.print ("Temperature is :");
    Serial.println(t);
    if (t>=300)
      digitalWrite(8, HIGH);
      delay(1000);
```

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else
{
    digitalWrite(8,LOW);
    delay(1000);
}
int m = digitalRead(13);
Serial.print("Motion detector");
Serial.println(m);
if(m == 1) {
    Serial.println("yes");
    digitalWrite(1,HIGH);
}
else{
    Serial.println("No");
    digitalWrite(1,LOW);
}
```