```
int Trigger = 2;
int Echo = 3;
void setup()
{
 pinMode(Trigger,OUTPUT);
 pinMode(Echo,INPUT);
 Serial.begin(9600);
 pinMode(7,OUTPUT);
 pinMode(8,OUTPUT);
 pinMode(13,INPUT);
 pinMode(1,OUTPUT);
}
void loop()
{
 digitalWrite(Trigger,LOW);
 digitalWrite(Trigger,HIGH);
 delayMicroseconds(10);
 digitalWrite(Trigger,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);
 }
 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);
 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);
}
}
```