

NALAIYA THIRAN - IBM

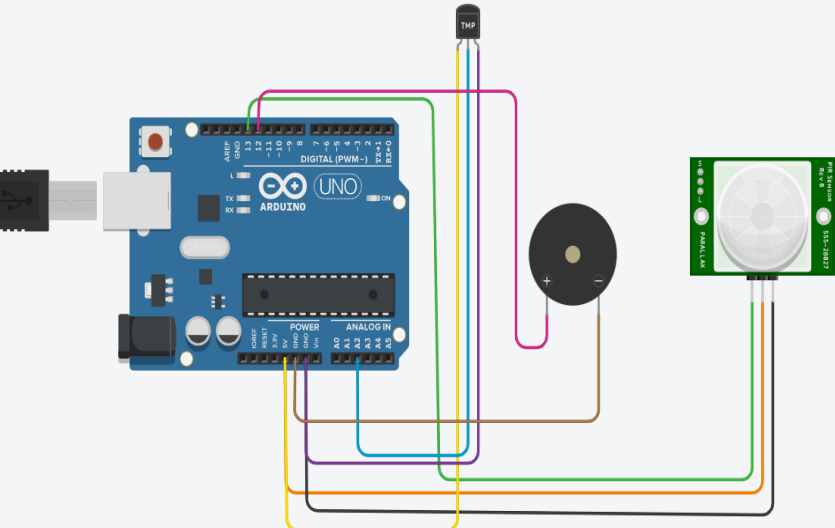
ASSIGNMENT – 1 :

TINKERCAD ASSIGNMENT 1

All changes saved

Code Start Simulation Send To

1 (Arduino Uno R3)



```
1 void setup()
2 {
3   Serial.begin(9600);
4   pinMode(13, INPUT);
5   pinMode(12, OUTPUT);
6 }
7
8 void loop()
9 {
10  double data=analogRead(A2);
11  double n=data/1024;
12  double volt=n*5;
13  double off=volt-0.5;
14  double temperature=off*100;
15  int motion=digitalRead(13);
16  for(int freq=4;freq<=5;freq++)
17  {
18    if(temperature>=60)
19    {
20      Serial.println("Temperature is above 60");
21      tone(12,freq);
22      delay(100);
23    }
24    else
25    {
26      Serial.println("Temperature is below 60");
27      noTone(12);
28    }
29  }
30 }
```

Serial Monitor

Temperature is below 60
Temperature is below 60
No Motion
No Motion
Temperature is below 60
Temperature is below 60
No Motion

ROLL NUMBER - 111519106132

