

Temperature Sensor

```
from machine import Pin
from time import sleep
import dht
sensor = dht.DHT22(Pin(14))
buzzer = Pin(13, Pin.OUT)

while True:
    try:
        sleep(2)
        sensor.measure()
        temp = sensor.temperature()
        if temp > 60:
            buzzer.on()
            print(" ")
            print("----->  TEMPERATURE ALERT  <-----")
            print(" ")
        else:
            buzzer.off()
            hum = sensor.humidity()
            temp_f = temp * (9/5) + 32.0
            print("Temperature: %3.1f C" %temp)
            print("Temperature: %3.1f F" %temp_f)
            print("Humidity: %3.1f %% " %hum)
            print(" ")
    except OSError as e:
        print("Failed to read sensor.")
```

```

main.py  diagram.json  Library Manager
1  from machine import Pin
2  from time import sleep
3  import dht
4
5  sensor = dht.DHT22(Pin(14))
6  buzzer = Pin(13, Pin.OUT)
7
8  while True:
9      try:
10         sleep(2)
11         sensor.measure()
12         temp = sensor.temperature()
13         if temp > 60:
14             buzzer.on()
15             print(" ")
16             print("<----->  TEMPERATURE ALERT  <----->")
17             print(" ")
18         else:
19             buzzer.off()
20         hum = sensor.humidity()
21         temp_f = temp * (9/5) + 32.0
22         print('Temperature: %3.1f C' %temp)
23         print('Temperature: %3.1f F' %temp_f)
24         print('Humidity: %3.1f %%' %hum)
25         print(" ")
26     except OSError as e:
27         print('Failed to read sensor.')
28
29
30

```

Simulation

