Project Design Phase-3

Date	17 October 2023
Team ID	7934
Project Name	4123-Air Quality Monitoring
Team Name	Proj_227236_Team_2
Team Members	5

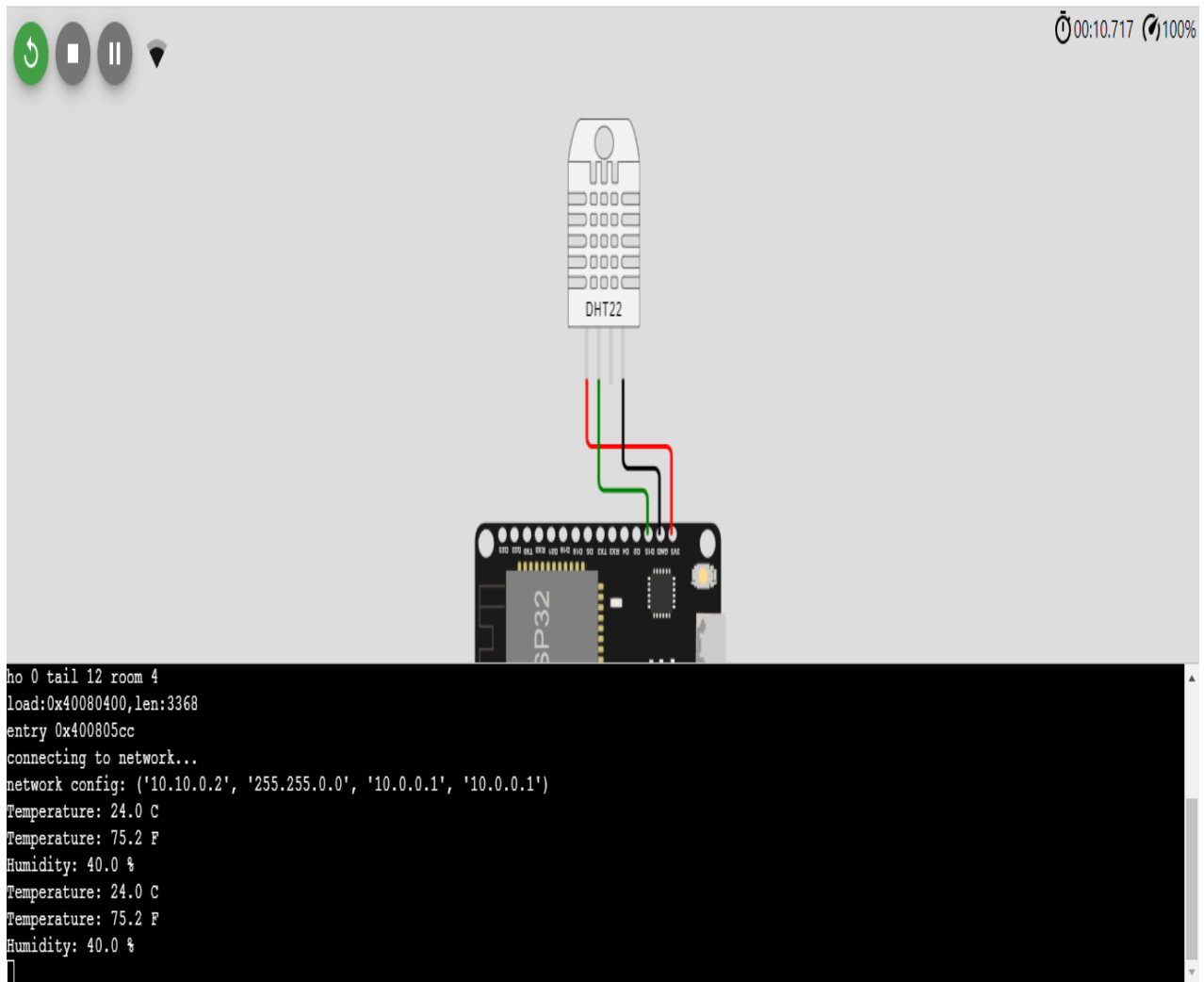## Air Quality Monitoring Diagram:
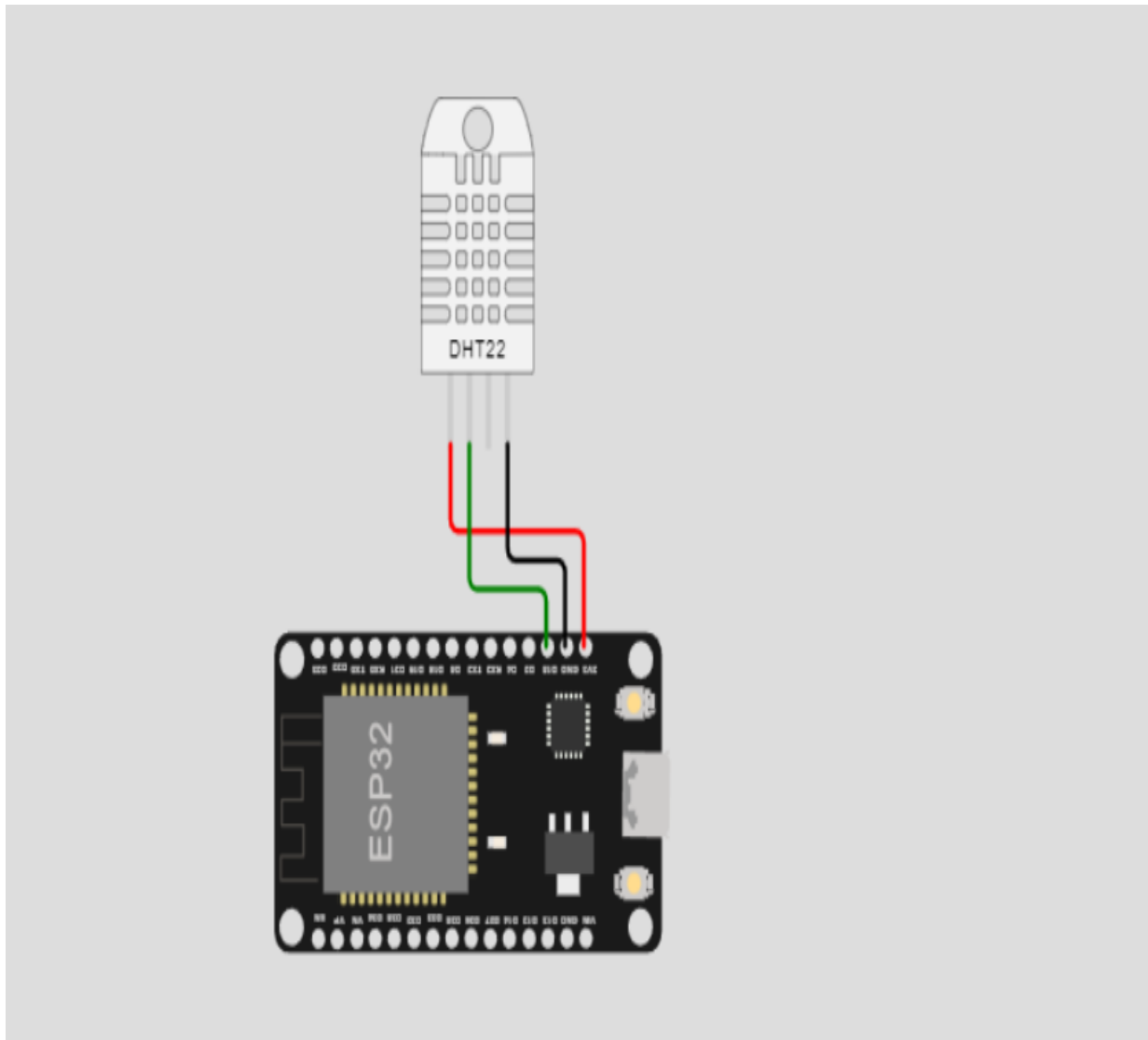
Program code for AQM:

main.py   diagram.json ▾

```python
from machine import Pin
from time import sleep
import dht
import network
sta_if = network.WLAN(network.STA_IF)
if not sta_if.isconnected():
    print('connecting to network...')
    sta_if.active(True)
    sta_if.connect('Wokwi-GUEST', "")
    while not sta_if.isconnected():
        pass
    print('network config:', sta_if.ifconfig())


sensor = dht.DHT22(Pin(15))
while True:
  try:
    sleep(2)
    sensor.measure()
    temp = sensor.temperature()
    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)
  except OSError as e:
    print('Failed to read sensor.')
```

OUTPUT:


```
ho 0 tail 12 room 4
load:0x40080400,len:3368
entry 0x400805cc
connecting to network...
network config: ('10.10.0.2', '255.255.0.0', '10.0.0.1', '10.0.0.1')
Temperature: 24.0 C
Temperature: 75.2 F
Humidity: 40.0 %
Temperature: 24.0 C
Temperature: 75.2 F
Humidity: 40.0 %
```

Reference: https://wokwi.com/projects/378845778645534721