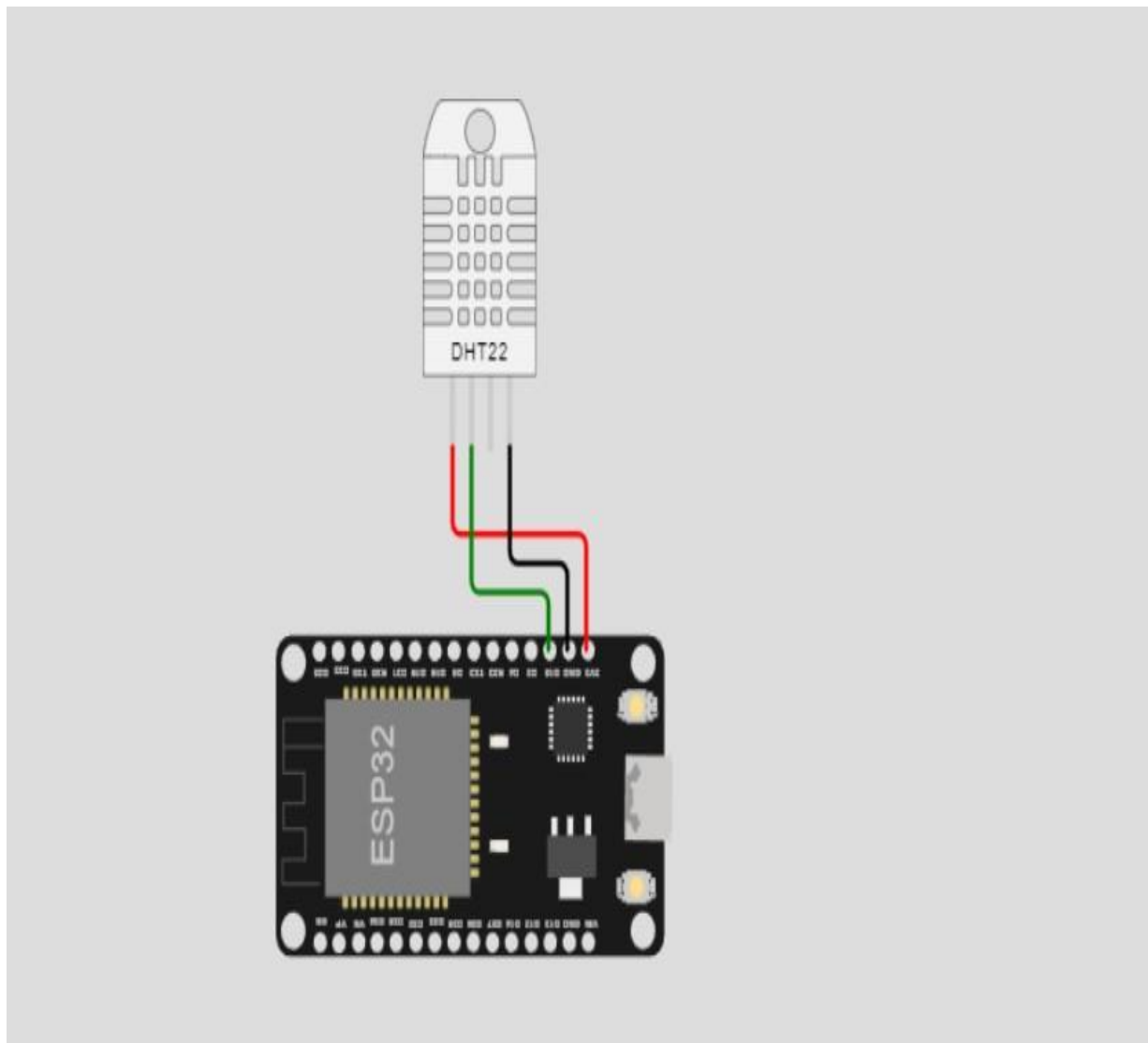


Project Design Phase-3

Date	18 October 2023
Team ID	467
Project Name	4123-Air Quality Monitoring
Team Name	Proj_227237_Team_1
Team Members	5

Air Quality Monitoring Diagram:

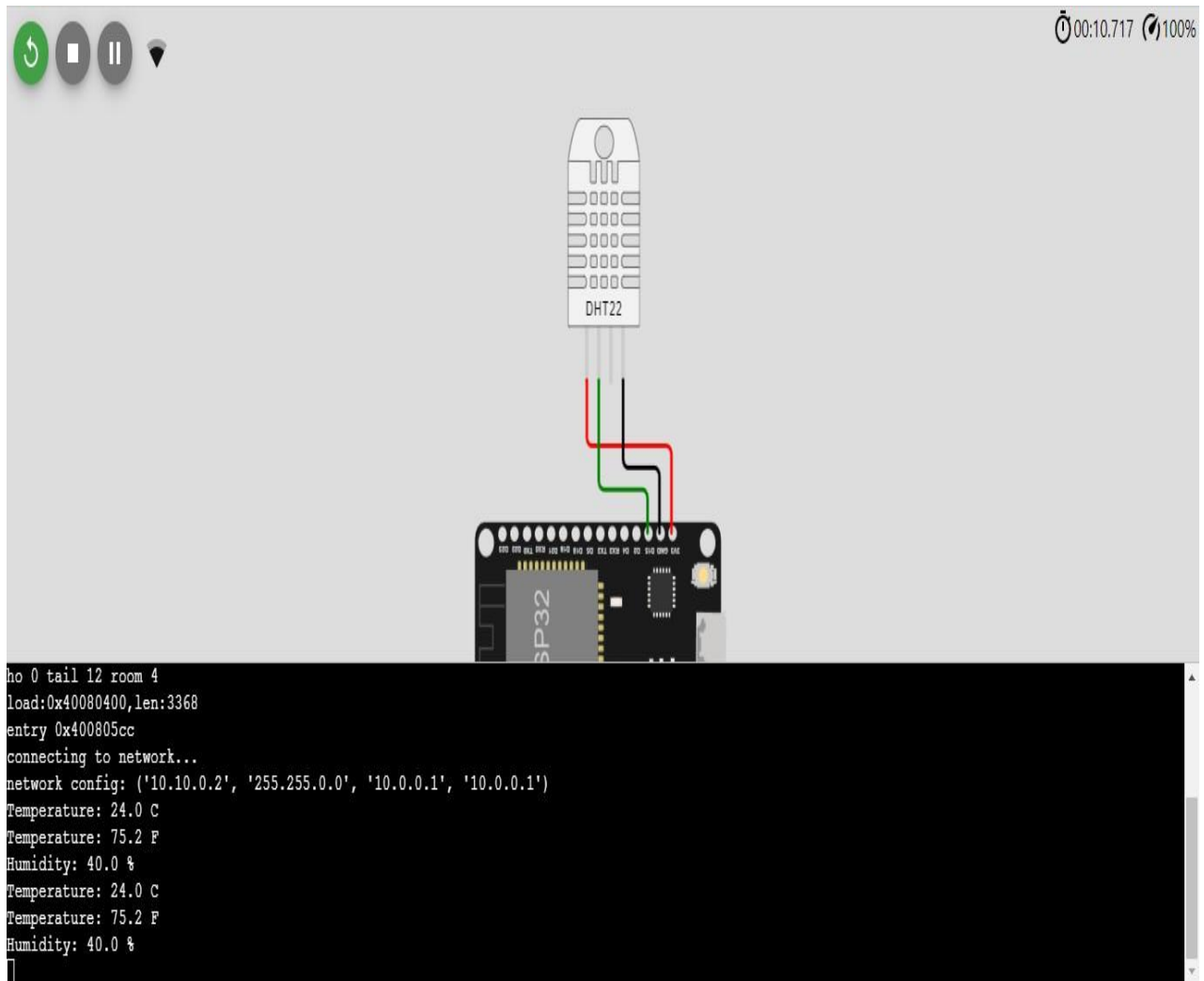


Program code for AQM:

WOKWI  SAVE  SHARE  Air quality monitoring 

```
main.py  diagram.json  ▼
1  from machine import Pin
2  from time import sleep
3  import dht
4  import network
5  sta_if = network.WLAN(network.STA_IF)
6  if not sta_if.isconnected():
7      print('connecting to network...')
8      sta_if.active(True)
9      sta_if.connect('Wokwi-GUEST', '')
10     while not sta_if.isconnected():
11         pass
12     print('network config:', sta_if.ifconfig())
13
14
15  sensor = dht.DHT22(Pin(15))
16  while True:
17      try:
18          sleep(2)
19          sensor.measure()
20          temp = sensor.temperature()
21          hum = sensor.humidity()
22          temp_f = temp * (9/5) + 32.0
23          print('Temperature: %3.1f C' %temp)
24          print('Temperature: %3.1f F' %temp_f)
25          print('Humidity: %3.1f %%' %hum)
26      except OSError as e:
27          print('Failed to read sensor.')
```

OUTPUT:



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