

## Wokwi Snap Shot

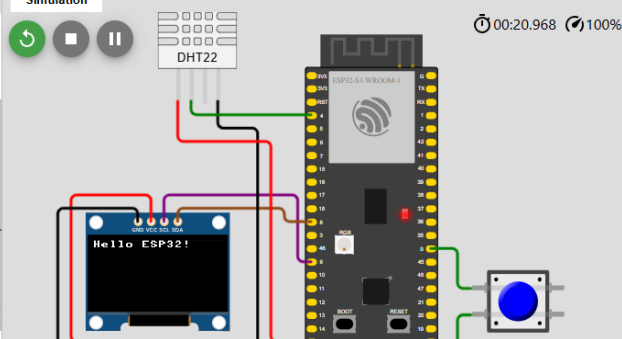
WOKWI SAVE SHARE temptest\_1368 Docs M

main.py • diagram.json ssd1306.py

```
12
13 # Initialize OLED display
14 i2c = machine.I2C(scl=machine.Pin(9), sda=machine.Pin(8))
15 oled = ssd1306.SSD1306_I2C(128, 64, i2c)
16
17
18 # Main loop
19 while True:
20     try:
21         dht_sensor.measure()
22         time.sleep(.2)
23         temp = dht_sensor.temperature()
24         humidity = dht_sensor.humidity()
25         print(temp, humidity)
26         oled.fill(0)
27         # oled.text("Temp: {} C".format(temp), 0, 0)
28         # oled.text("Humidity: {}".format(humidity), 0, 16)
29         oled.text("Hello ESP32!", 0, 16)
30         oled.show()
31
32
33
34 except Exception as e:
35     print("Error reading DHT22 sensor:", e)
36
37
38 time.sleep(1) # Update every 2 seconds
```

Simulation

00:20.968 100%



24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0

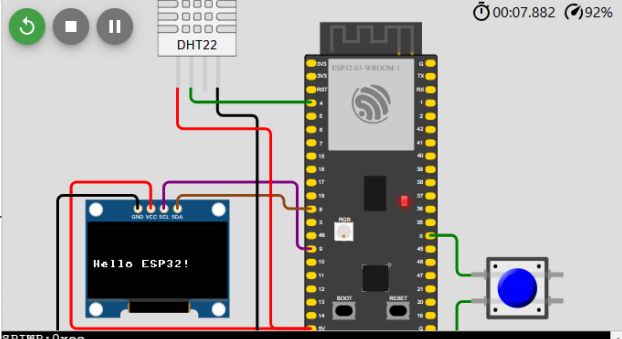
WOKWI SAVE SHARE temptest\_1368 Docs M

main.py • diagram.json ssd1306.py

```
12
13 # Initialize OLED display
14 i2c = machine.I2C(scl=machine.Pin(9), sda=machine.Pin(8))
15 oled = ssd1306.SSD1306_I2C(128, 64, i2c)
16
17
18 # Main loop
19 while True:
20     try:
21         dht_sensor.measure()
22         time.sleep(.2)
23         temp = dht_sensor.temperature()
24         humidity = dht_sensor.humidity()
25         print(temp, humidity)
26         oled.fill(0)
27         # oled.text("Temp: {} C".format(temp), 0, 0)
28         # oled.text("Humidity: {}".format(humidity), 0, 16)
29         oled.text("Hello ESP32!", 0, 32)
30         oled.show()
31
32
33
34 except Exception as e:
35     print("Error reading DHT22 sensor:", e)
36
37
38 time.sleep(1) # Update every 2 seconds
```

Simulation

00:07.882 92%



SPIWP:0xee  
mode:DIO, clock div:1  
load:0x3fce3810, len:0xf8c  
load:0x403c9700, len:0xb3c  
load:0x403c700, len:0x2dd4  
entry 0x403c989c  
Warning: I2C(-1, ...) is deprecated, use SoftI2C(...) instead  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0

wokwi.com/projects/423480633847518209

WOKWI SAVE SHARE temptest\_1368 Docs

main.py diagram.json ssd1306.py

```

12
13 # Initialize OLED display
14 i2c = machine.I2C(scl=machine.Pin(9), sda=machine.Pin(8))
15 oled = ssd1306.SSD1306_I2C(128, 64, i2c)
16
17
18 # Main loop
19 while True:
20     try:
21         dht_sensor.measure()
22         time.sleep(.2)
23         temp = dht_sensor.temperature()
24         humidity = dht_sensor.humidity()
25         print(temp, humidity)
26         oled.fill(0)
27         # oled.text("Temp: {} C".format(temp), 0, 0)
28         # oled.text("Humidity: {}".format(humidity), 0,)
29         oled.text("HELLO ESP32!!!", 0, 0)
30         oled.text("1234567890ABCDEF", 0, 10)
31         oled.text("ABCDEFGH123456", 0, 20)
32         oled.text("QRSTUVWXYZ123456", 0, 30)
33         oled.text("IOT MICRO PYTHON", 0, 40)
34         oled.text("ESP32 OLED TEST", 0, 50)
35         oled.show()
36
37
38
39 except Exception as e:
40     print("Error reading DHT22 sensor:", e)
41

```

Simulation

00:33.100 99%

DHT22

HELLO ESP32!!!  
1234567890ABCDEF  
ABCDEFGH123456  
QRSTUVWXYZ123456  
IOT MICRO PYTHON  
ESP32 OLED TEST

24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0

wokwi.com/projects/423480633847518209

WOKWI SAVE SHARE temptest\_1368 Docs

main.py diagram.json ssd1306.py

```

12
13 # Initialize OLED display
14 i2c = machine.I2C(scl=machine.Pin(9), sda=machine.Pin(8))
15 oled = ssd1306.SSD1306_I2C(128, 64, i2c)
16
17
18 # Main loop
19 while True:
20     try:
21         dht_sensor.measure()
22         time.sleep(.2)
23         temp = dht_sensor.temperature()
24         humidity = dht_sensor.humidity()
25         print(temp, humidity)
26         oled.fill(0)
27         # oled.text("Temp: {} C".format(temp), 0, 0)
28         # oled.text("Humidity: {}".format(humidity), 0,)
29         oled.text("HELLO ESP32!!!", 0, 0)
30         oled.text("1234567890ABCDEF", 0, 10)
31         oled.text("ABCDEFGH123456", 0, 20)
32         oled.text("QRSTUVWXYZ123456", 0, 30)
33         oled.text("IOT MICRO PYTHON", 0, 40)
34         oled.text("ESP32 OLED TEST", 0, 50)
35         oled.show()
36
37
38
39 except Exception as e:
40     print("Error reading DHT22 sensor:", e)
41

```

Simulation

00:13.432 72%

HELLO ESP32!!!  
1234567890ABCDEF  
ABCDEFGH123456  
QRSTUVWXYZ123456  
IOT MICRO PYTHON  
ESP32 OLED TEST

load:0x403c9700,len:0xb3c  
load:0x403cc700,len:0x2dd4  
entry 0x403c989c  
Warning: I2C(-1, ...) is deprecated, use SoftI2C(...) instead  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0  
24.0 40.0