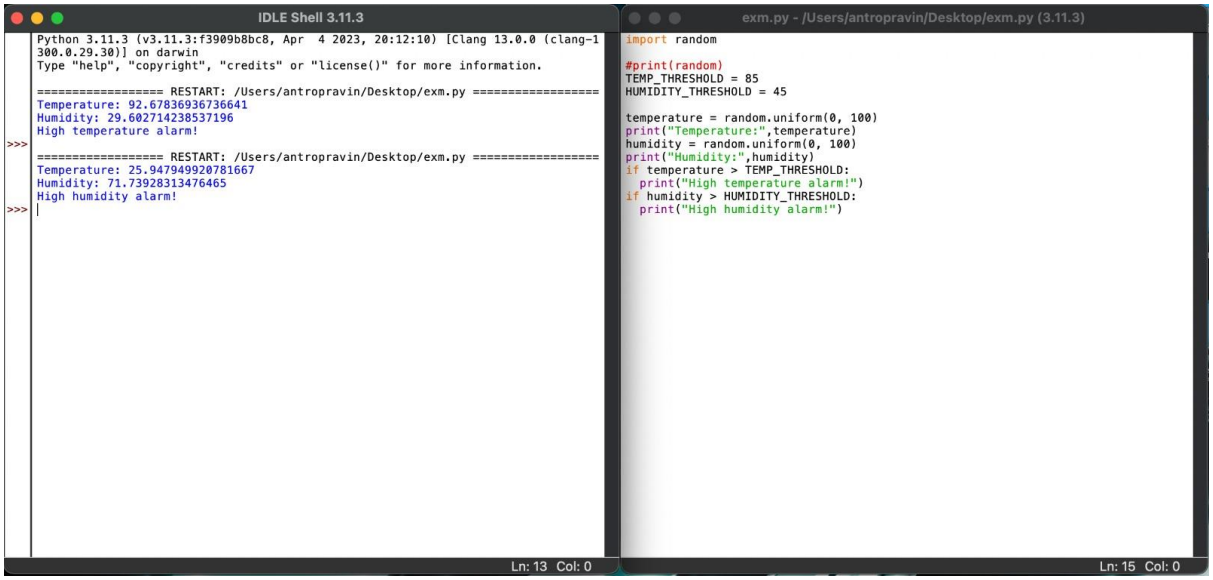
IoT Assignment 2

Code:

main.py

```
import random

# Set the threshold values for temperature and humidity

TEMP_THRESHOLD = 85 # degrees Celsius

HUMIDITY_THRESHOLD = 45 # percent


# Generate a random temperature value between 0 and 100 degrees Celsius

temperature = random.uniform(0, 100)

print("Temperature:", temperature)


# Generate a random humidity value between 0 and 100 percent

humidity = random.uniform(0, 100)

print("Humidity:", humidity)


# Check if either temperature or humidity is above the threshold

if temperature > TEMP_THRESHOLD:

print("High temperature alarm!")

if humidity > HUMIDITY_THRESHOLD:

print("High humidity alarm!")
```

OUTPUT


IDLE Shell 3.11.3
Python 3.11.3 (v3.11.3:f3909b8bc8, Apr 4 2023, 20:12:10) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
========== RESTART: /Users/antropravin/Desktop/exm.py ==========
Temperature: 92.67836936736641
Humidity: 29.602714238537196
High temperature alarm!
>>>
========== RESTART: /Users/antropravin/Desktop/exm.py ==========
Temperature: 25.947949920781667
Humidity: 71.73928313476465
High humidity alarm!
>>>
Ln: 13 Col: 0
exm.py - /Users/antropravin/Desktop/exm.py (3.11.3)
import random
#print(random)
TEMP_THRESHOLD = 85
HUMIDITY_THRESHOLD = 45
temperature = random.uniform(0, 100)
print("Temperature:",temperature)
humidity = random.uniform(0, 100)
print("Humidity:",humidity)
if temperature > TEMP_THRESHOLD:
print("High temperature alarm!")
if humidity > HUMIDITY_THRESHOLD:
print("High humidity alarm!")
Ln: 15 Col: 0