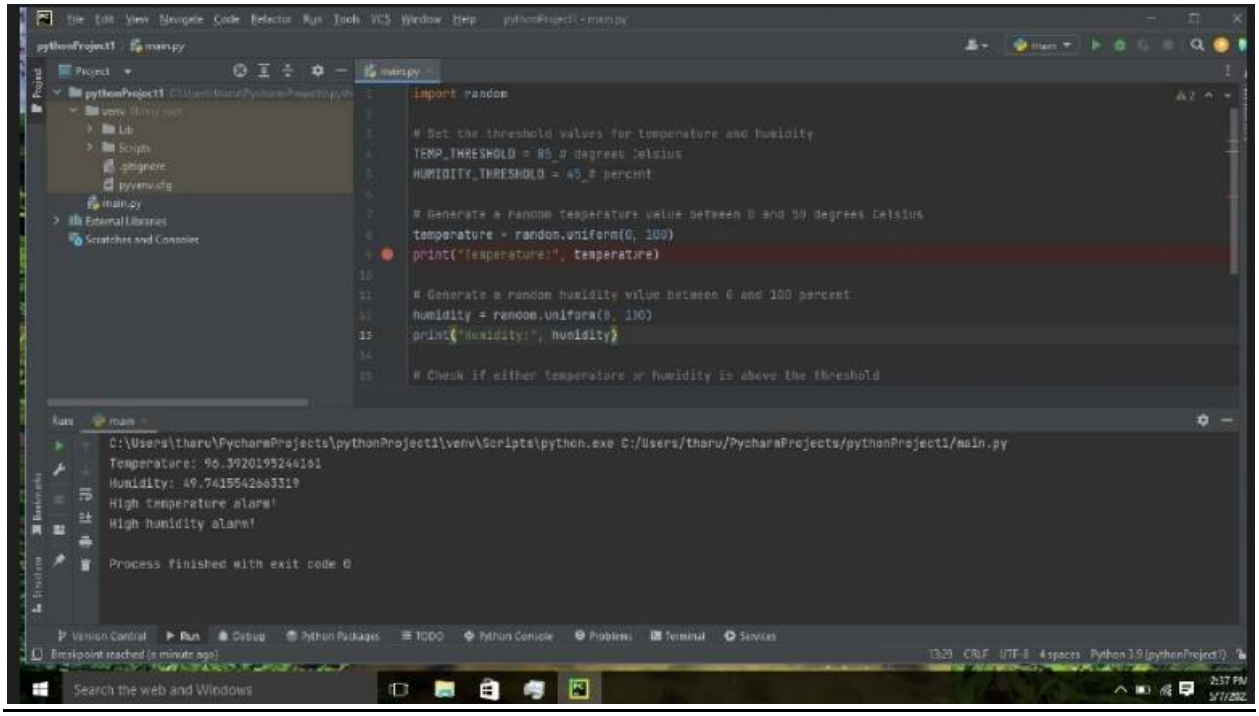
IOT ASSIGNMENT 2

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)

if temperature > TEMP_THRESHOLD:

#Check if either temperature or humidity is above the threshold if humidity > HUMIDITY
THRESHOLD:

print("High temperature alarm!")

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

OUTPUT:


import random
# Set the threshold values for temperature and humidity
TEMP_THRESHOLD = 85.0 degrees Celsius
HUMIDITY_THRESHOLD = 45.0 percent
# Generate a random temperature value between 0 and 50 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
C:\Users\tharu\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/tharu/PycharmProjects/pythonProject1/main.py
Temperature: 96.39201952441161
Humidity: 49.74155428633119
High temperature alarm!
High humidity alarm!
Process finished with exit code 0