ASSIGNMENT-2

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Topic : Python code to generate random values for temperature and humidity and triggers an alarm if it reaches above that value.

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PYTHON CODE :

```python
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:

```
Temperature: 95.84087705285174
Humidity: 8.007097087460979
High temperature alarm!
```