IBM ASSIGNMENT 2 - IOT DOMAIN

CODE:

```
import random
import time
# Define the threshold values for temperature and humidity
TEMP_THRESHOLD = 30 # in Celsius
HUMIDITY_THRESHOLD = 80 # in percentage
# Function to generate random temperature and humidity values
def generate_values():
  temp = random.uniform(20, 40) # generate temperature between 20 and
40 Celsius
  humidity = random.uniform(40, 90) # generate humidity between 40%
and 90%
  return temp, humidity
# Main loop to generate values and check for alarms
while True:
  temp, humidity = generate_values()
  print(f"Temperature: {temp:.2f} C, Humidity: {humidity:.2f} %")
# Check for temperature and humidity alarms
   if temp > TEMP_THRESHOLD:
      print("Temperature alarm triggered!")
   if humidity > HUMIDITY_THRESHOLD:
      print("Humidity alarm triggered!")
# Wait for some time before generating the next values
   time.sleep(5)
```

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OUTPUT: