IBM IOT Assignment -2

Python Programming

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Question-1:

Build a Python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature

Code:

```
import random
for x in range(0,100):
    temp = random.randint(0,100)
    hum = random.randint(0,70)
    print("Temperature:",temp)
    print("Humidity:",hum)
    if temp>57 or hum<40:
        print("Alarm ON")
    else:
        print("Alarm OFF")
    print("\n")</pre>
```

```
main.py

1 import random
2 for x in range(0,100):
3 temp = random.randint(0,70)
print("Temperature:",temp)
print("Humidity:",hum)
7 if temp>57 or hum<40:
print("Alarm ON")
else:
print("Alarm OFF")
11 print("\n")
```

Output:

input Temperature: 72 Humidity: 52 Alarm ON Temperature: 87 Humidity: 31 Alarm ON Temperature: 17 Humidity: 39 Alarm ON Temperature: 11 Humidity: 67 Alarm OFF Temperature: 37 Humidity: 38 Alarm ON Temperature: 91 Humidity: 0 Alarm ON Temperature: 34 Humidity: 28 Alarm ON