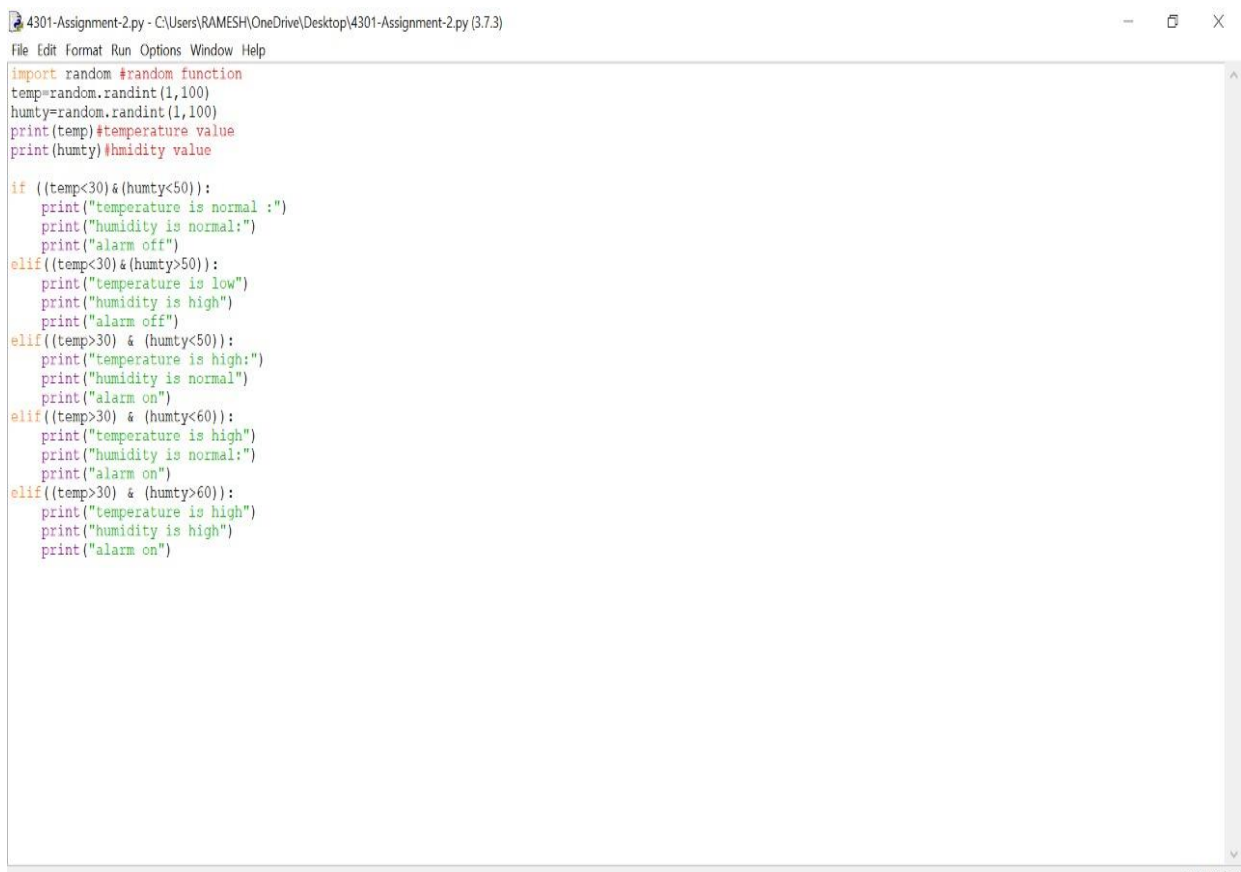


# Nalaiya Thiran (IBM)

## ASSIGNMENT – 2

**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.**

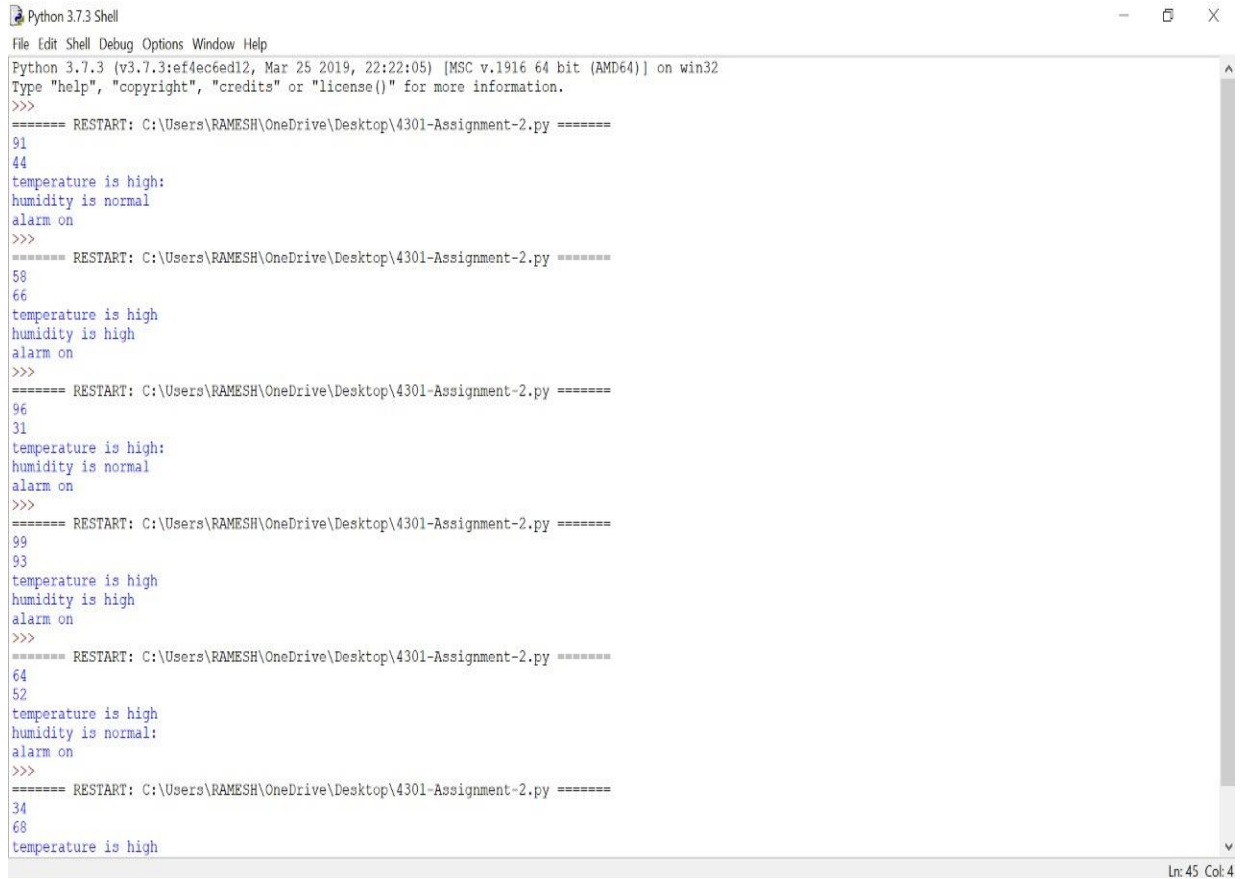
### Program Screenshot:



```
4301-Assignment-2.py - C:\Users\RAMESH\OneDrive\Desktop\4301-Assignment-2.py (3.7.3)
File Edit Format Run Options Window Help
import random #random function
temp=random.randint(1,100)
humty=random.randint(1,100)
print(temp)#temperature value
print(humty)#humidity value

if ((temp<30) & (humty<50)):
    print("temperature is normal :")
    print("humidity is normal:")
    print("alarm off")
elif((temp<30) & (humty>50)):
    print("temperature is low")
    print("humidity is high")
    print("alarm off")
elif((temp>30) & (humty<50)):
    print("temperature is high:")
    print("humidity is normal")
    print("alarm on")
elif((temp>30) & (humty<60)):
    print("temperature is high")
    print("humidity is normal:")
    print("alarm on")
elif((temp>30) & (humty>60)):
    print("temperature is high")
    print("humidity is high")
    print("alarm on")
```

# Output Screenshot:



```
Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\RAMESH\OneDrive\Desktop\4301-Assignment-2.py =====
91
44
temperature is high:
humidity is normal
alarm on
>>>
===== RESTART: C:\Users\RAMESH\OneDrive\Desktop\4301-Assignment-2.py =====
58
66
temperature is high
humidity is high
alarm on
>>>
===== RESTART: C:\Users\RAMESH\OneDrive\Desktop\4301-Assignment-2.py =====
96
31
temperature is high:
humidity is normal
alarm on
>>>
===== RESTART: C:\Users\RAMESH\OneDrive\Desktop\4301-Assignment-2.py =====
99
93
temperature is high
humidity is high
alarm on
>>>
===== RESTART: C:\Users\RAMESH\OneDrive\Desktop\4301-Assignment-2.py =====
64
52
temperature is high
humidity is normal:
alarm on
>>>
===== RESTART: C:\Users\RAMESH\OneDrive\Desktop\4301-Assignment-2.py =====
34
68
temperature is high
```

Ln 45 Col 4

# Program Code:

```
import random #random function

temp=random.randint(1,100)

humty=random.randint(1,100)

print(temp)#temperature value

print(humty)#hmidity value


if ((temp<30)&(humty<50)):

    print("temperature is normal :")

    print("humidity is normal:")

    print("alarm off")

elif((temp<30)&(humty>50)):

    print("temperature is low")

    print("humidity is high")

    print("alarm off")

elif((temp>30) & (humty<50)):

    print("temperature is high:")

    print("humidity is normal")

    print("alarm on")

elif((temp>30) & (humty<60)):

    print("temperature is high")

    print("humidity is normal:")

    print("alarm on")

elif((temp>30) & (humty>60)):

    print("temperature is high")

    print("humidity is high")

    print("alarm on")
```