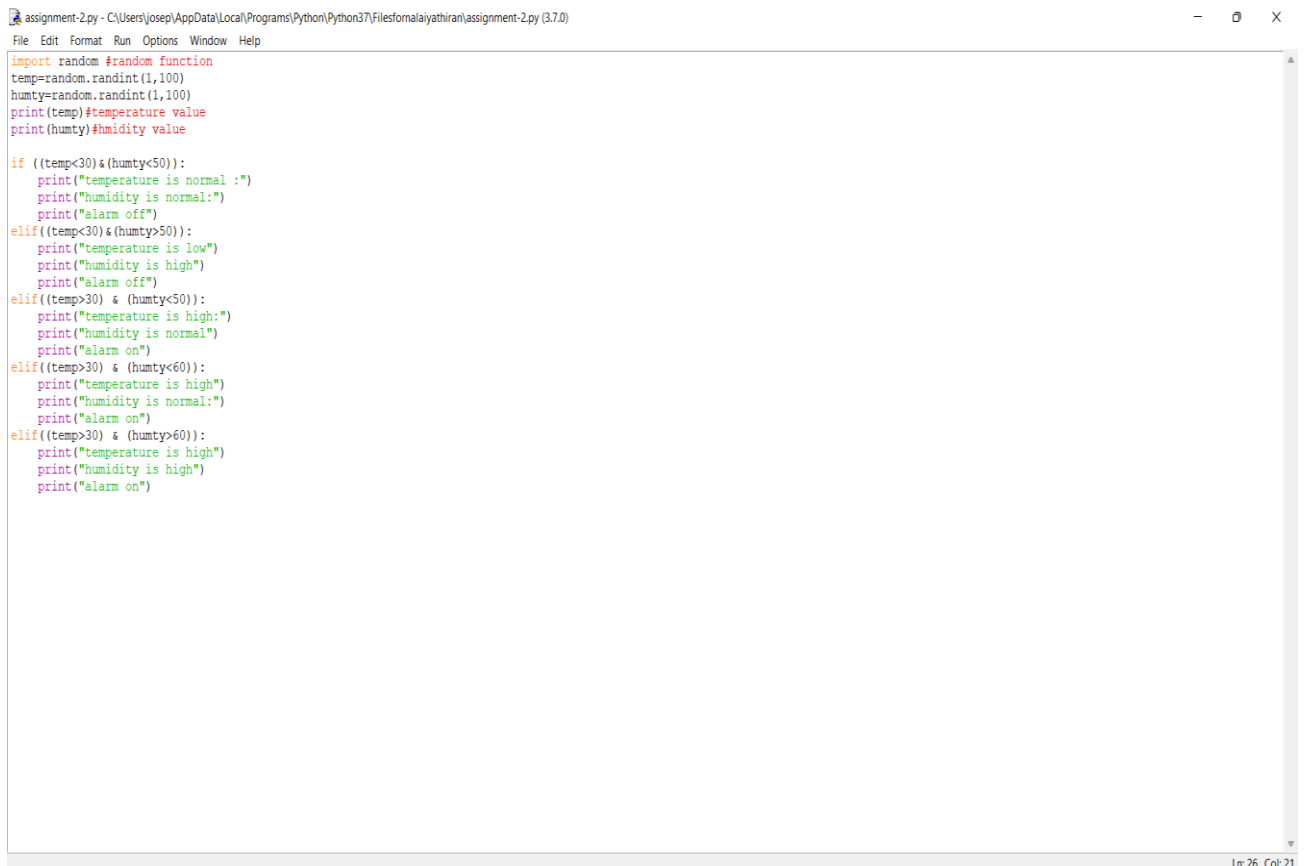# Nalaiya Thiran (IBM)

## 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.
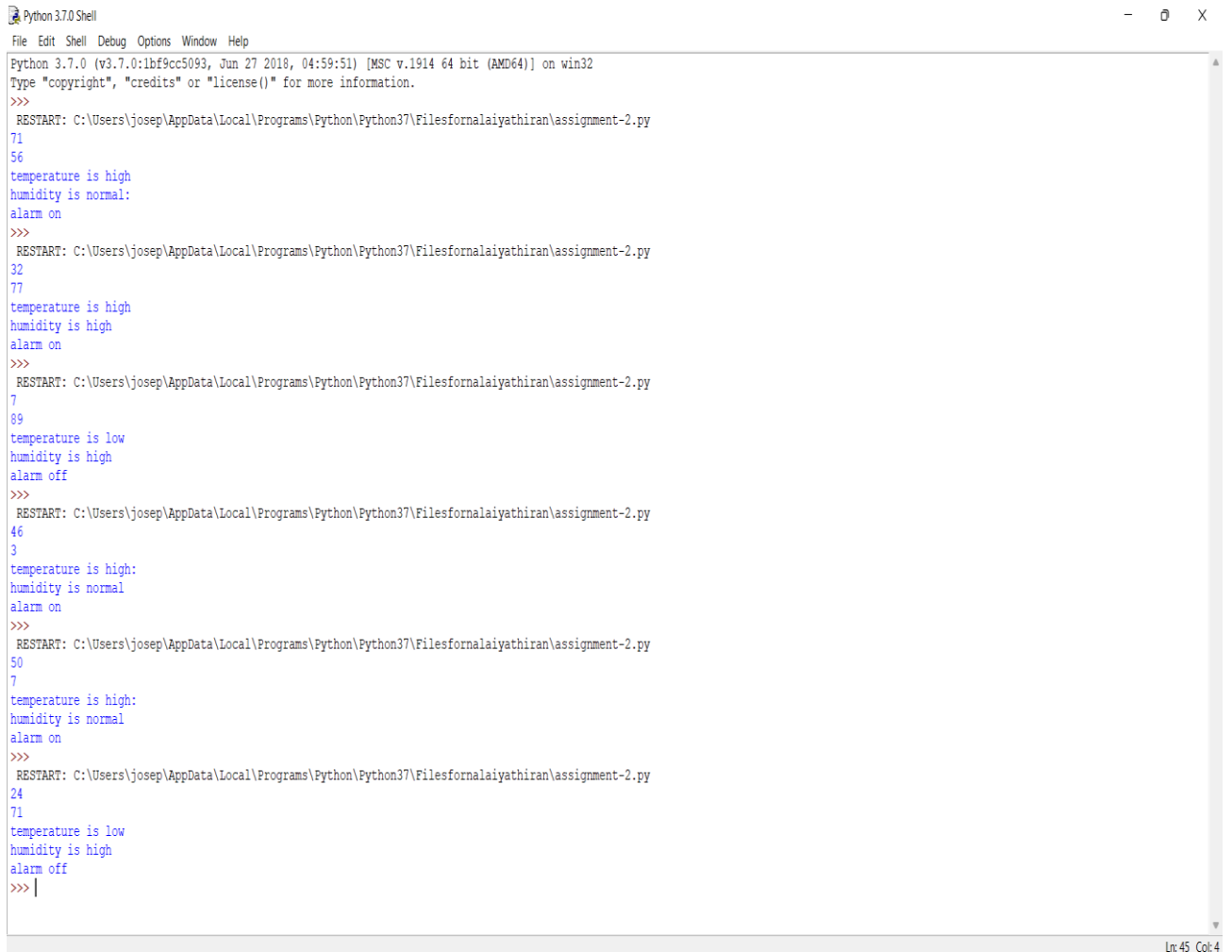
# Program Screenshot:



```python
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")
```

# Output Screenshot:

```
Python 3.7.0 Shell                                                                    —  □  X
File  Edit  Shell  Debug  Options  Window  Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
 RESTART: C:\Users\josep\AppData\Local\Programs\Python\Python37\Filesfornalaiyathiran\assignment-2.py
71
56
temperature is high
humidity is normal:
alarm on
>>>
 RESTART: C:\Users\josep\AppData\Local\Programs\Python\Python37\Filesfornalaiyathiran\assignment-2.py
32
77
temperature is high
humidity is high
alarm on
>>>
 RESTART: C:\Users\josep\AppData\Local\Programs\Python\Python37\Filesfornalaiyathiran\assignment-2.py
7
89
temperature is low
humidity is high
alarm off
>>>
 RESTART: C:\Users\josep\AppData\Local\Programs\Python\Python37\Filesfornalaiyathiran\assignment-2.py
46
3
temperature is high:
humidity is normal
alarm on
>>>
 RESTART: C:\Users\josep\AppData\Local\Programs\Python\Python37\Filesfornalaiyathiran\assignment-2.py
50
7
temperature is high:
humidity is normal
alarm on
>>>
 RESTART: C:\Users\josep\AppData\Local\Programs\Python\Python37\Filesfornalaiyathiran\assignment-2.py
24
71
temperature is low
humidity is high
alarm off
>>>
                                                                                Ln: 45  Col: 4
```

# Program Code:

```python
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")
```