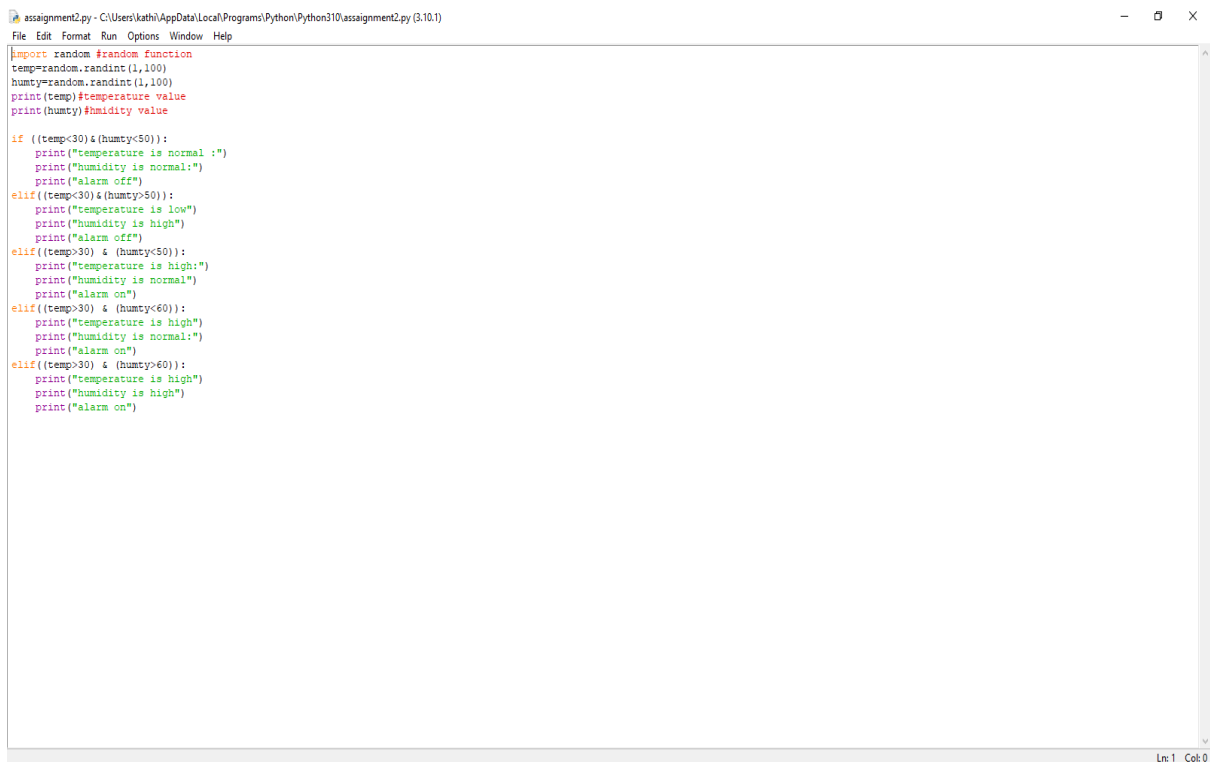


Nalaiya Thiran (IBM)

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:



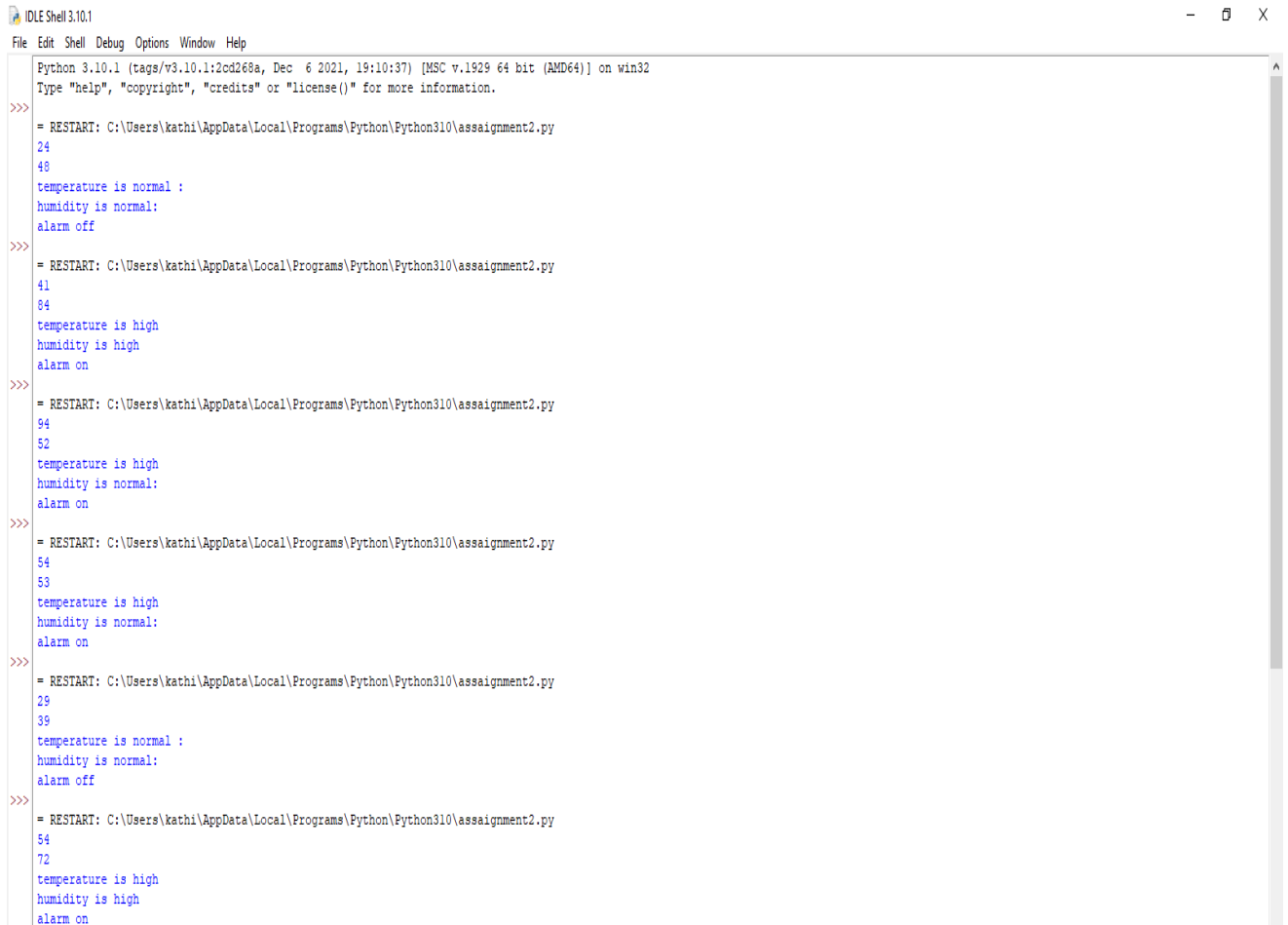
```
assignment2.py - C:\Users\kathi\AppData\Local\Programs\Python\Python310\assignment2.py (3.10.1)
File Edit Format Run Options Window Help

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")

Ln: 1 Col: 0
```

Output Screenshot:



```
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\kathi\AppData\Local\Programs\Python\Python310\assignment2.py
24
48
temperature is normal :
humidity is normal:
alarm off
>>>
= RESTART: C:\Users\kathi\AppData\Local\Programs\Python\Python310\assignment2.py
41
84
temperature is high
humidity is high
alarm on
>>>
= RESTART: C:\Users\kathi\AppData\Local\Programs\Python\Python310\assignment2.py
94
52
temperature is high
humidity is normal:
alarm on
>>>
= RESTART: C:\Users\kathi\AppData\Local\Programs\Python\Python310\assignment2.py
54
53
temperature is high
humidity is normal:
alarm on
>>>
= RESTART: C:\Users\kathi\AppData\Local\Programs\Python\Python310\assignment2.py
29
39
temperature is normal :
humidity is normal:
alarm off
>>>
= RESTART: C:\Users\kathi\AppData\Local\Programs\Python\Python310\assignment2.py
54
72
temperature is high
humidity is high
alarm on
```

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")
```