# ASSIGNMENT-II

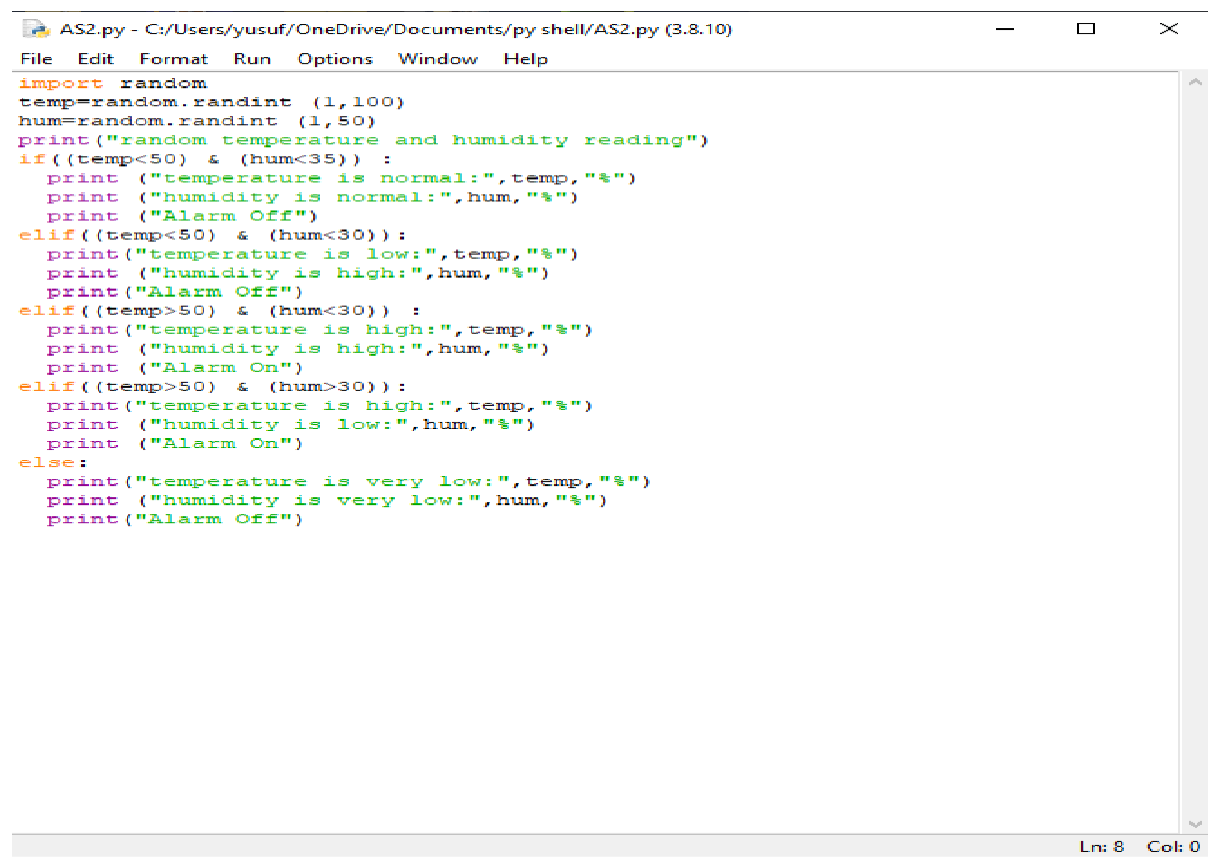| NAME | D.DINCY DICTION |
|------|------------------|
| REGISTER NUMBER | 960519106030 |

## Problem:

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.

## Python code:

```
import random
temp=random.randint (1,100)
hum=random.randint (1,50)
print("random temperature and humidity reading")
if((temp<50) & (hum<35)) :
print ("temperature is normal:",temp,"%")
print ("humidity is normal:",hum,"%")
print ("Alarm Off")
elif((temp<50) & (hum<30)):
print("temperature is low:",temp,"%")
print ("humidity is high:",hum,"%")
print("Alarm Off")
elif((temp>50) & (hum<30)) :
```

```
print("temperature is high:",temp,"%")
print ("humidity is high:",hum,"%")
print ("Alarm On")
elif((temp>50) & (hum>30)):
print("temperature is high:",temp,"%")
print ("humidity is low:",hum,"%")
print ("Alarm On")
else:
print("temperature is very low:",temp,"%")
print ("humidity is very low:",hum,"%")
print("Alarm Off")
```

# code execution:

# Output:



```
IDLE Shell 3.8.10                                                    —    □    ×
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.10 (tags/v3.8.10:3d8993a, May  3 2021, 11:48:03) [MSC v.1928 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Users/yusuf/OneDrive/Documents/py shell/AS2.py ==========
random temperature and humidity reading
temperature is very low: 13 %
humidity is very low: 48 %
Alarm Off
>>>
========== RESTART: C:/Users/yusuf/OneDrive/Documents/py shell/AS2.py ==========
random temperature and humidity reading
temperature is high: 99 %
humidity is high: 28 %
Alarm On
>>>
========== RESTART: C:/Users/yusuf/OneDrive/Documents/py shell/AS2.py ==========
random temperature and humidity reading
temperature is normal: 19 %
humidity is normal: 16 %
Alarm Off
>>>
========== RESTART: C:/Users/yusuf/OneDrive/Documents/py shell/AS2.py ==========
random temperature and humidity reading
temperature is very low: 30 %
humidity is very low: 48 %
Alarm Off
>>>
========== RESTART: C:/Users/yusuf/OneDrive/Documents/py shell/AS2.py ==========
random temperature and humidity reading
temperature is high: 61 %
humidity is low: 42 %
Alarm On
>>>
========== RESTART: C:/Users/yusuf/OneDrive/Documents/py shell/AS2.py ==========
random temperature and humidity reading
temperature is normal: 4 %
humidity is normal: 8 %
Alarm Off
>>>
                                                                Ln: 39   Col: 4
```