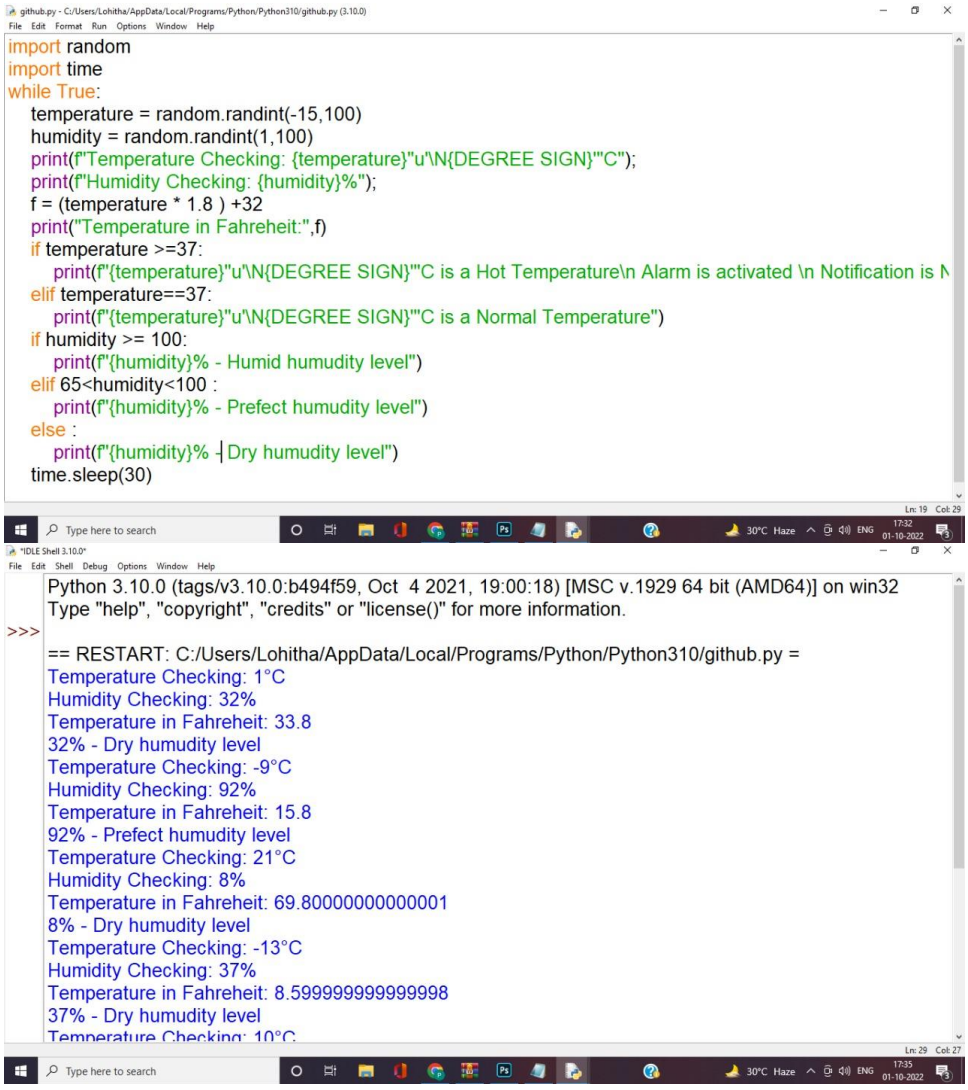
ASSIGNMENT-2

PYTHON CODE FOR TEMPERATURE AND HUMIDTY MONITORING ALERT SYSTEM

CODE:

```
import random
import time
while True:
    temperature = random.randint(-15,100)
    humidity = random.randint(1,100)
    print(f"Checking Temperature: {temperature}"u'\N{DEGREE SIGN}'"C");
    print(f"Checking Humidity: {humidity}%");
    f = (temperature * 1.8) +32
    print(" Fahrenheit temperature is:",f)
    if temperature >=37:
        print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Hot Temperature\n Alarm
is                  activated \n Notification is Notified")
    elif temperature==37:
        print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Normal Temperature")
    if humidity >= 100:
        print(f"{humidity}% high humidity level")
    elif 65<humidity<100 :
        print(f"{humidity}% ideal humidity level")
    else :
        print(f"{humidity}% Dry humidity level")
    time.sleep(30)
```

OUTPUT:


github.py - C:/Users/Lohitha/AppData/Local/Programs/Python/Python310/github.py (3.10.0)
File Edit Format Run Options Window Help
import random
import time
while True:
temperature = random.randint(-15,100)
humidity = random.randint(1,100)
print(f"Temperature Checking: {temperature}"u'\N{DEGREE SIGN}'"C");
print(f"Humidity Checking: {humidity}%");
f = (temperature * 1.8) +32
print("Temperature in Fahreheit:",f)
if temperature >=37:
print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Hot Temperature\n Alarm is activated \n Notification is N
elif temperature==37:
print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Normal Temperature")
if humidity >= 100:
print(f"{humidity}% - Humid humudity level")
elif 65<humidity<100 :
print(f"{humidity}% - Prefect humudity level")
else :
print(f"{humidity}% - Dry humudity level")
time.sleep(30)
Ln: 19 Col: 29
Type here to search
30°C Haze
ENG
17:32
01-10-2022
IDLE Shell 3.10.0
File Edit Shell Debug Options Window Help
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Lohitha/AppData/Local/Programs/Python/Python310/github.py =
Temperature Checking: 1°C
Humidity Checking: 32%
Temperature in Fahreheit: 33.8
32% - Dry humudity level
Temperature Checking: -9°C
Humidity Checking: 92%
Temperature in Fahreheit: 15.8
92% - Prefect humudity level
Temperature Checking: 21°C
Humidity Checking: 8%
Temperature in Fahreheit: 69.80000000000001
8% - Dry humudity level
Temperature Checking: -13°C
Humidity Checking: 37%
Temperature in Fahreheit: 8.599999999999998
37% - Dry humudity level
Temperature Checking: 10°C
Ln: 29 Col: 27
Type here to search
30°C Haze
ENG
17:35
01-10-2022

OUTPUT:

Temperature Checking: 1°C
Humidity Checking: 32%
Temperature in Fahreheit: 33.8
32% - Dry humudity level
Temperature Checking: -9°C
Humidity Checking: 92%
Temperature in Fahreheit: 15.8
92% - Prefect humudity level
Temperature Checking: 21°C
Humidity Checking: 8%
Temperature in Fahreheit: 69.80000000000001
8% - Dry humudity level
Temperature Checking: -13°C
Humidity Checking: 37%
Temperature in Fahreheit: 8.599999999999998
37% - Dry humudity level
Temperature Checking: 10°C
Humidity Checking: 84%
Temperature in Fahreheit: 50.0
84% - Prefect humudity level
Temperature Checking: 17°C
Humidity Checking: 40%
Temperature in Fahreheit: 62.6
40% - Dry humudity level