

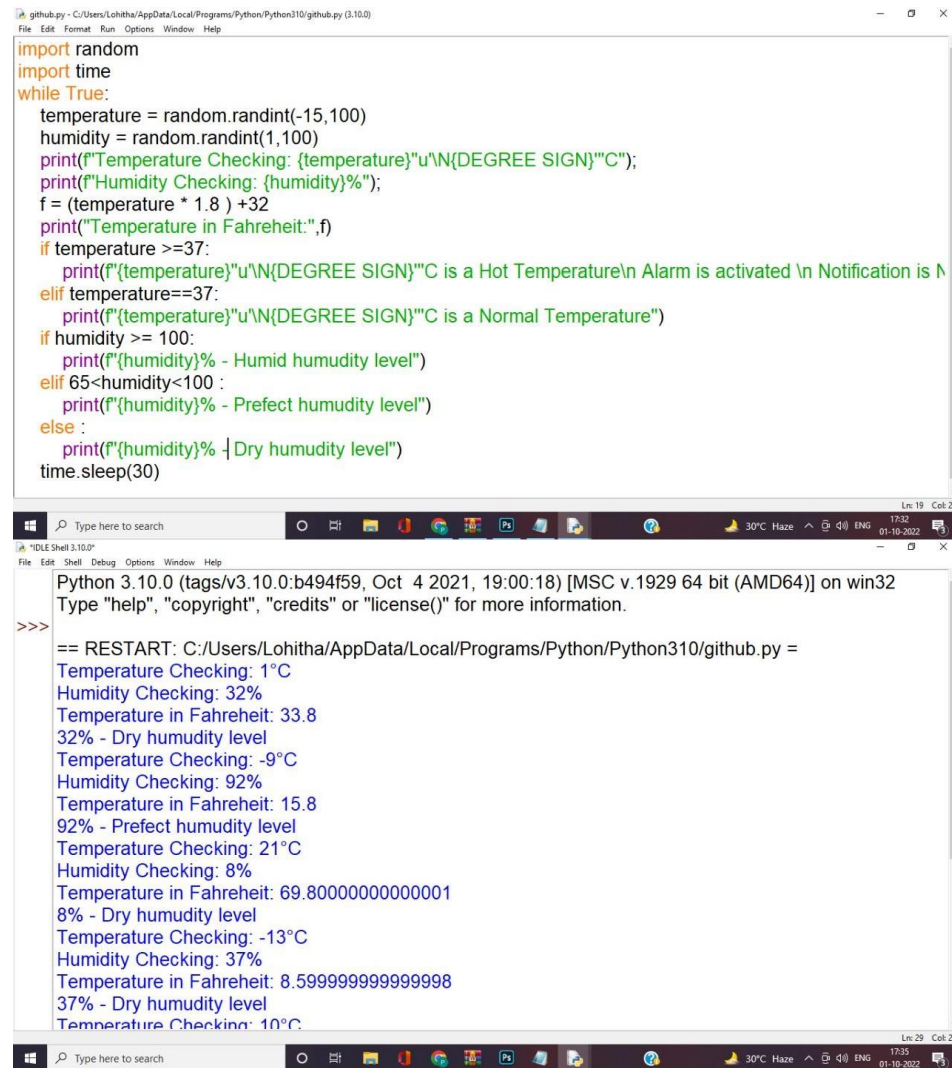
ASSIGNMENT-2

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"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 Notified")
    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)
```

OUTPUT:



The image shows a screenshot of a Python script and its output in an IDE. The script is named `github.py` and is located at `C:/Users/Lohitha/AppData/Local/Programs/Python/Python310/github.py`. The script imports `random` and `time` modules and enters a `while True:` loop. Inside the loop, it generates random temperature and humidity values, prints them in Celsius and Fahrenheit, and checks if the temperature is hot, normal, or cold, and if the humidity is humid, perfect, or dry. The output shows several iterations of these checks.

```
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}°C");
    print(f"Humidity Checking: {humidity}%");
    f = (temperature * 1.8 ) +32
    print("Temperature in Fahreheit:",f)
    if temperature >=37:
        print(f"{temperature}°C is a Hot Temperature\n Alarm is activated \n Notification is N")
    elif temperature==37:
        print(f"{temperature}°C is a Normal Temperature")
    if humidity >= 100:
        print(f"{humidity}% - Humid humidity level")
    elif 65<humidity<100 :
        print(f"{humidity}% - Prefect humidity level")
    else :
        print(f"{humidity}% - Dry humidity level")
    time.sleep(30)
```

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 humidity level
Temperature Checking: -9°C
Humidity Checking: 92%
Temperature in Fahreheit: 15.8
92% - Prefect humidity level
Temperature Checking: 21°C
Humidity Checking: 8%
Temperature in Fahreheit: 69.80000000000001
8% - Dry humidity level
Temperature Checking: -13°C
Humidity Checking: 37%
Temperature in Fahreheit: 8.599999999999998
37% - Dry humidity level
Temperature Checking: 10°C
```

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