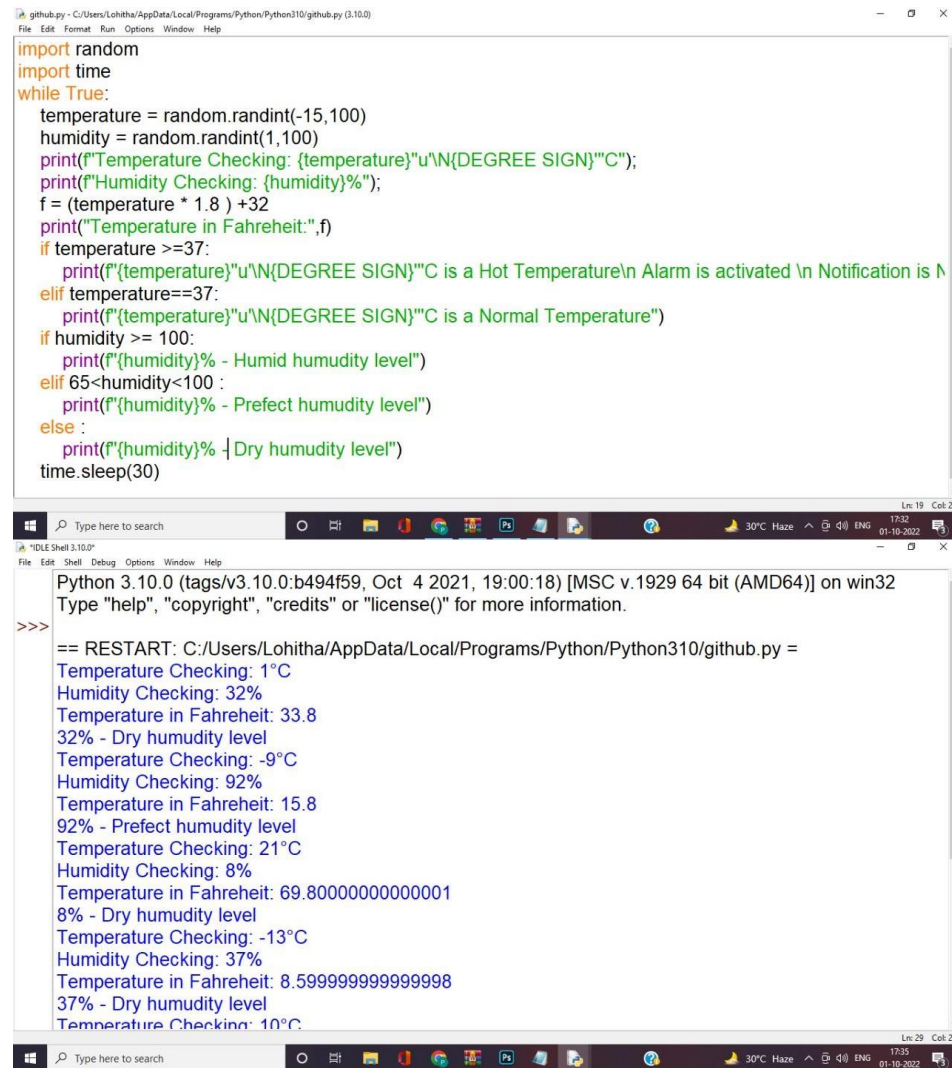# ASSIGNMENT-2

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:

```python
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)
```

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```
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
```

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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