

IOT ASSIGNMENT-2

SOURCE 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("Temperature in Fahreheit 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}% it is a Humid humudity level")

    elif 65<humidity<100 :

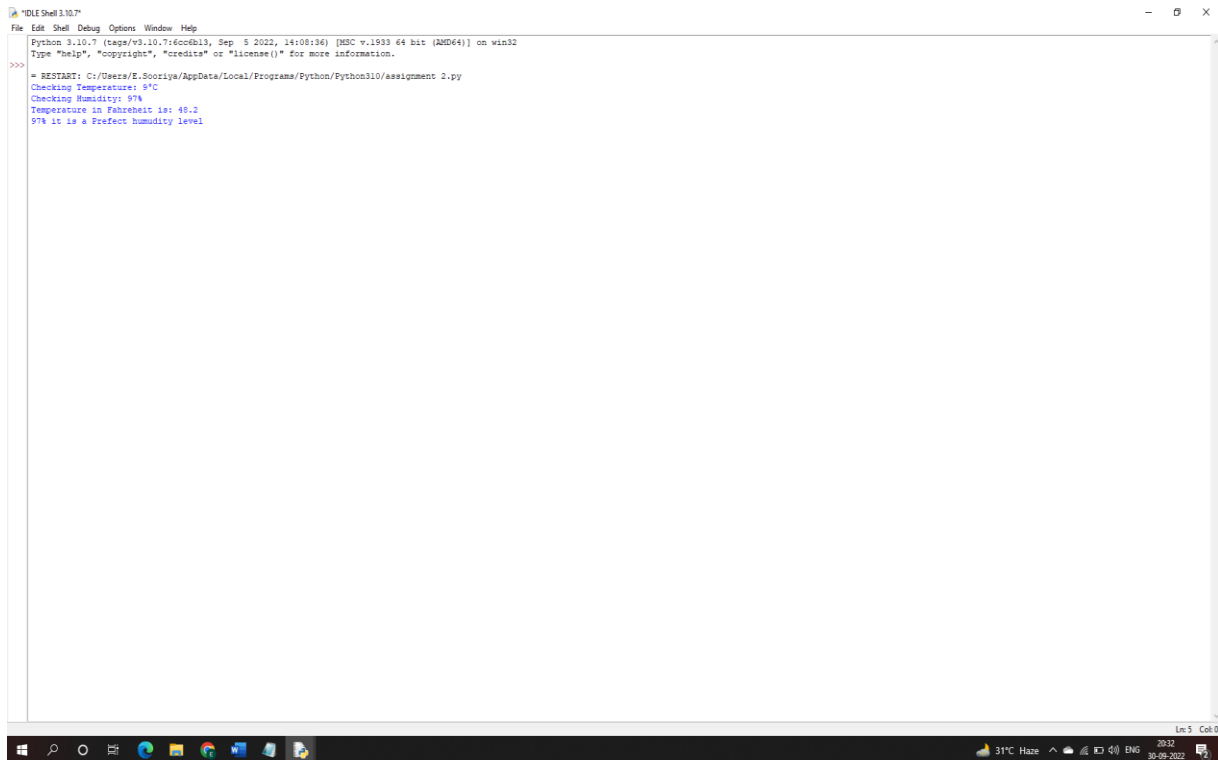
        print(f"{humidity}% it is a Prefect humudity level")

    else :

        print(f"{humidity}% it is a Dry humudity level")

    time.sleep(30)
```

OUTPUT:



```
Python 3.10.7 (tags/v3.10.7:6cc0b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/E.Sooriya/AppData/Local/Programs/Python/Python310/assignment 2.py
Checking Temperature: 9°C
Checking Humidity: 97%
Temperature in Fahrenheit is: 48.2
97% it is a Prefect humidity level
```