

## 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 :

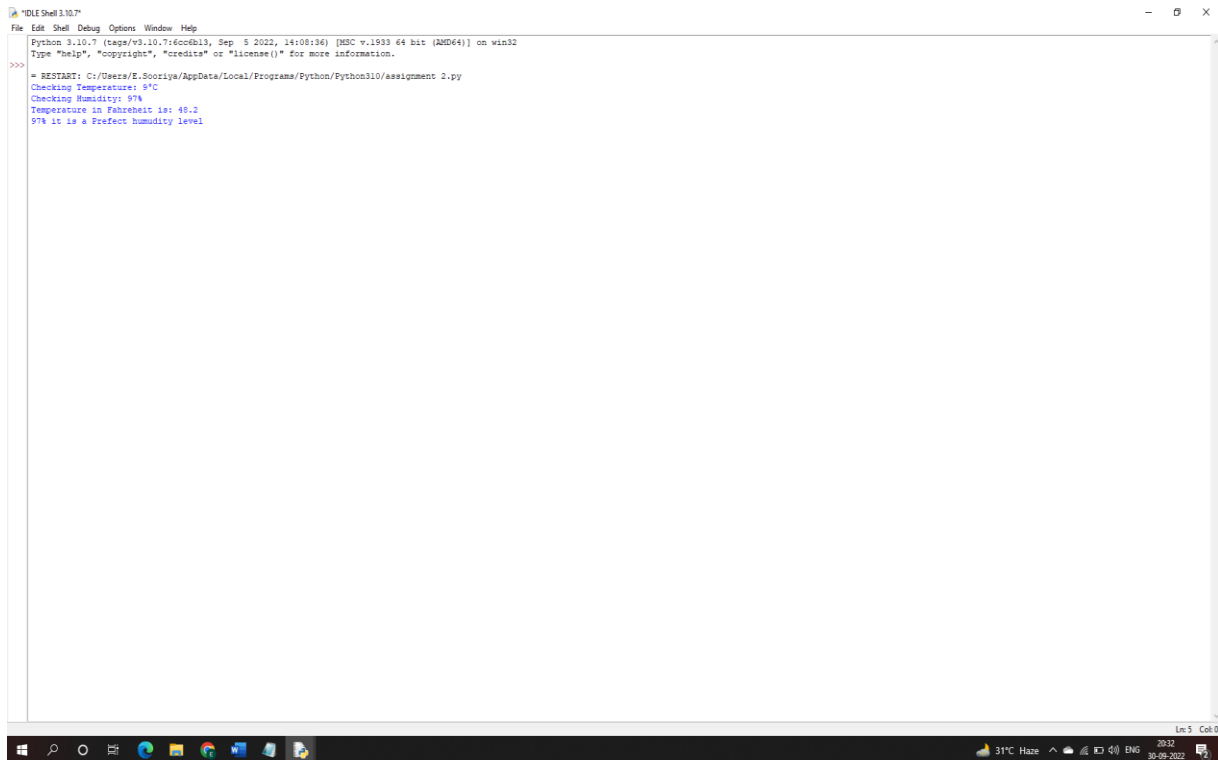
        print(f"{humidity}% it is a Prefect humudity level")

    else :

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

    time.sleep(30)
```

## OUTPUT:



The screenshot shows a Windows IDE Shell window titled "IDE Shell 3.10.7". The window contains the following text:

```
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
```

The window has a standard Windows taskbar at the bottom with icons for the Start menu, Search, Task View, and several application windows. The system tray on the right shows the date and time as 30-09-2022, 20:32, and the temperature as 31°C.