

## ASSIGNMENT 2:

### PYTHON CODE:

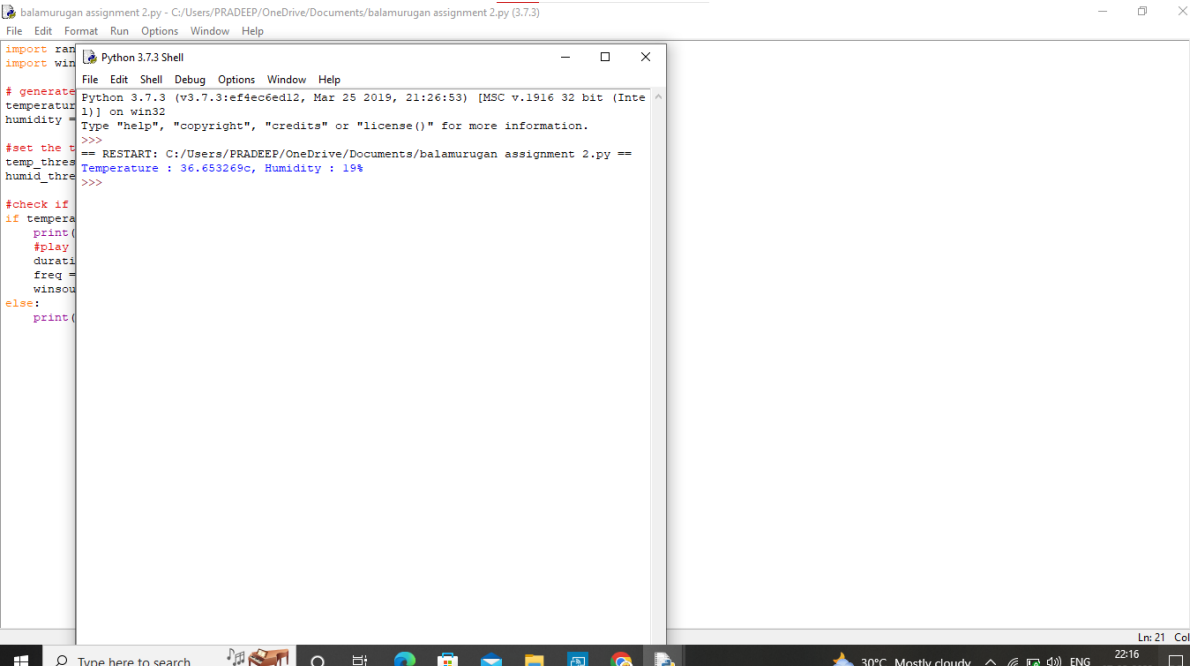
```
import random
import winsound

# generate random temperature and humidity values
temperature = random.uniform(30,40)
humidity = random.randint(0,100)

#set the temperature and humidity thresholds for alarm
temp_threshold = 30 #temperature threshold for the alarm
humid_threshold = 30 # humidity threshold for the alarm

#check if the temperature and humidity are above the thresholds
if temperature > temp_threshold and humidity > humid_threshold:
    print("High temperature and high humidity detected")
    #play alarm sound to alert the user
    duration = 1000 #milliseconds
    freq = 440 #Hz
    winsound.Beep(freq, duration)
else:
    print("Temperature : {:.2f}c, Humidity : {}%".format(temperature,humidity))
```

## OUTPUT:



The screenshot shows a Windows desktop with a taskbar at the bottom. The taskbar includes the Start button, a search bar, and several application icons. A Python 3.7.3 Shell window is open, displaying the execution of a script. The script's output is as follows:

```
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/PRADEEP/OneDrive/Documents/balamurugan assignment 2.py ==
Temperature : 36.653269c, Humidity : 19%
>>>
```

The taskbar at the bottom shows the system clock as 22:16 on 07-05-2023, and the weather as 30°C Mostly cloudy.