ASSIGNMENT -2 SUBHASHRI K S (111519106154)

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

jupyter Untitled2 Last Checkpoint: 23/09/2022 (unsaved changes)

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Trusted Python 3

Run Code

In [3]:
```
import random  ##Assuming the range of temperature 23 Celsius to 40 Celsius
import winsound #If temperature is above 33 Celsius consider high temperature
temperature=random.randint(23,40)
print("Temperature=",end=" ")
print(temperature)
if temperature>33:
    print("High temperature buzzer rings")
    print("XXXXXBUZZERXXXXX")
    winsound.Beep(4444, 500)
else:
    print("Normal Temperature")
    print("-----BUZZER-----")

#Let dewpoint be lessthan temperature
difference=random.randint(3,8)
dewpoint=temperature-difference
print("dewpoint=",end=" ")
print(dewpoint)

#Relative Humidity
rh=100*(2.718281828*(17.625*dewpoint/(243.04+dewpoint)))/(2.718281828*(17.625*temperature/(243.04+temperature)))
print("Relative Humidity=",end=" ")
print(rh)
```

```
Temperature= 28
Normal Temperature
-----BUZZER-----
dewpoint= 22
Relative Humiditv= 80.3501358285542
```