**Assignment 2**

**Temperature and humidity monitoring using python**

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**Python code:**

import random

def tempMonitor():

minRoomTemp=15

maxRoomTemp=25

minRoomHum=30

maxRoomHum=50

temp = random.randint(14,26)

humidity = random.randint(29,51)

if ((temp>=minRoomTemp)and(temp<=maxRoomTemp) and (humidity>=minRoomHum) and (humidity<=maxRoomHum)):

print("The temperature and humidity is optimum")

tempMonitor()

else:

if(temp<minRoomTemp):

print("The temperature is too cold:"+ str(temp))

if(humidity<minRoomHum):

print("The humidity is low:"+ str(humidity))

if(temp>maxRoomTemp):

print("The temperature is too hot:"+ str(temp))

if(humidity>maxRoomHum):

print(" ALERT: The humidity is high:"+ str(humidity))

return

tempMonitor()

**IDLE OUTPUT:**







