## **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):</pre>
  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:**







