IBM

ASSIGNMENT-02

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Build a python code, Assume you 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.

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):</pre>
  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:



