ASSIGNMENT-2

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Topic: Assignment on temperature and humidity sensing and alarm automation using 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</pre>
(humidity>=minRoomHum) and (humidity<=maxRoomHum)):</pre>
   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()
```

Output



