# IBM ASSIGNMENT 2

CODE:

```python
import random
import time
while(1):
 temp=random.randint(0,100)
 hum=random.randint(0,100)
 if(20<=temp<=40): #room temperature may lie between 15C - 30C
     print("Temperature is normal. Temperature = ",temp)
 elif(temp<20):
     print("Temperature is too low. Temperature = ",temp)
 elif(temp>40):
     print("Temperature is too high. Temperature = ",temp)
 if(50<=hum<=60): #humidity may lie between 30% - 50%
     print("Humidity is normal. Humidity = ",hum)
 elif(hum<50):
     print("Very less humidity. Humidity = ",hum)
 elif(hum>60):
     print("Very high humidity. Humidity = ",hum)
 print()
 time.sleep(5) #it will monitor for every 5 second
```

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import random
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 if(50<=hum<=60): #humidity may lie between 30% - 50%
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 elif(hum<50):
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     print("Very high humidity. Humidity = ",hum)
 print()
 time.sleep(5) #it will monitor for every 5 second
```

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# OUTPUT:

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:/Users/GOKUL/Documents/ibm_projects/assignment_2.py ========
Temperature is too high. Temperature =  57
Humidity is normal. Humidity =  56

Temperature is too low. Temperature =  1
Very high humidity. Humidity =  64


======== RESTART: C:/Users/GOKUL/Documents/ibm_projects/assignment_2.py ========
Temperature is too low. Temperature =  10
Humidity is normal. Humidity =  52


======== RESTART: C:/Users/GOKUL/Documents/ibm_projects/assignment_2.py ========
Temperature is too high. Temperature =  87
Humidity is normal. Humidity =  53

Temperature is too high. Temperature =  50
Humidity is normal. Humidity =  51


======== RESTART: C:/Users/GOKUL/Documents/ibm_projects/assignment_2.py ========
Temperature is normal. Temperature =  40
Very high humidity. Humidity =  89

Temperature is normal. Temperature =  30
Very high humidity. Humidity =  91
```

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