IoT ASSIGNMENT

TOPIC : Assignment on temperature and humidity sensing and alarm automation using python

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CODE :

```python
import random   #importing random values
import time     #importing time to introduce delay between instantaneous random values
while (True):   #looping the random values
    time.sleep(2)
    a=random.randint(10,70)   #getting random values as a for temperature
    b=random.randint(10,99)   #getting random values as a for humidity

    if(a>35 and b>60):
        print("high temperature and humidity of:",a,b,"%","alarm is on")
    elif(a<35 and b<60):
        print("Normal temperature and humidity of:",a,b,"%","alarm is off")
    continue
```

<u>OUTPUT :</u>

EXPLORER

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'r' basi oding.py

•*d httprequest.py

^d ibm assignment 2.py

^d randomvalue.py

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```
1     import randon
2     import time
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4         t1WQ.5iQ2p(2)


7
g     }T(g § a i d b›60):
          print("high l emoe°ature ano huntdit y of:",a,b, Z", "aha°m is on")
IC    eflt(a‹35 ated b‹60):
11        print("Normal teMDerature and humidity of:",a,b,"%","alarm is off")
1Z    continue
1°.
```

^ROBLEM£   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
Normal temperature and humidity of: 34 46 % alarm is off
Normal temperature and humidity of: 21 d7 % alarm is off
high temperature and humidity of: 62 82 % alarm is on
Normal temperature and humidity of: 21 41 % alarm is off
Normal temperature and humidity of: 33 14 % alarm is off
Normal temperature and humidity of: 1Z 4Z % alarm is off
Normal temperature and humidity of: 23 20 % alarm is off
high tenperature and hunidity of: 36 68 % alarn is on
high temperature and humidity of: 61 65 % alarm is on
Normal temperature and humidity of: 31 57 % alarm is off
high temperature and humidity of: 57 80 % alarm is on
high temperature and humidity of: 50 61 % alarm is on
Normal temperature and humidity of: 20 16 % alarm is off
Normal temperature and humidity of: 23 18 % alarm is off
high tenperature and hunidity of: 50 63 % alarn is on
high temperature and humidity of: 65 90 % alarm is on
Normal temperature and humidity of: 32 37 % alarm is off
Normal temperature and humidity of: 18 50 % alarm is off
high temperature and humidity of: 39 78 % alarm is on
Normal temperature and humidity of: 17 b9 % alarm is off
high temperature and humidity of: 39 83 % alarm is on
```

} OUTLINE

} TIMELINE

@ 0 @ 0