PANIMALAR ENGINEERING COLLEGE

Department of Electronics and Communication

Engineering IOT Assignment

Topic: Assume you get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature.

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CODE:

```python
import random
import time
while True:
    try:
        time.sleep(3)
        temp = random.randrange(20, 50)
        humid = random.randrange(10, 100)
        if temp >= 40:
            print(temp, "the temperature is high!!- ALARM")
        else:
            print(temp, "the temperature is normal")
        if humid >= 70:
            print(humid, "the humidity is high!!- ALARM")
        else:
            print(humid, "the humidity is normal")
    except KeyboardInterrupt:
        break
```

OUTPUT:

main.py

```python
'''

                        Online Python Compiler.
            Code, Compile, Run and Debug python program online.
Write your code in this editor and press "Run" button to execute it

'''

import random
import time
while True:
    try:
        time.sleep(3)
        temp = random.randrange(20, 50)
        humid = random.randrange(10, 100)
        if temp >= 40:
            print(temp, "the temperature is high!!- ALARM")
        else:
            print(temp, "the temperature is normal")
        if humid >= 70:
            print(humid, "the humidity is high!!- ALARM")
        else:
            print(humid, "the humidity is normal")
    except KeyboardInterrupt:
        break
```

```
25 the temperature is normal
48 the humidity is normal
37 the temperature is normal
41 the humidity is normal
44 the temperature is high!!- ALARM
88 the humidity is high!!- ALARM
42 the temperature is high!!- ALARM
73 the humidity is high!!- ALARM
```