PROBLEM STATEMENT :

IoT Based REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM.

DOMAIN :

Internet of Things

ASSIGNMENT 2:

Assume u get temperatureand humidity values (generated with random function to a variable) and write acondition to continuously detect alarm in case of high temperature.

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Python code:

```
import random
def temp():
    temp=random.randint(20,40)
    return temp
def humidity():
    humidity=random.randint(30,70)
    return humidity
temp=temp()
humidity=humidity()
print("temperature is:",temp)
print("humidity is:",humidity)
if(temp>30):
    if(humidity>60):
        print("alert detected")
    else:
        print("high temperature detected")
elif(temp==30):
    print("threshold reached")
else:
    print("all good")
```

OUTPUT:

Temperature is: 21
Humidity is: 55
All good

OUTPUT 2:

Temperature is: 38
Humidity is: 55

main.py

Run

Shell

Clear

```
import random
def temp():
    temp=random.randint(20,40)
    return temp
def humidity():
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humidity=humidity()
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print("humidity is:",humidity)
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    if(humidity>60):
        print("alert detected")
    else:
        print("high temperature detected")
elif(temp==30):
    print("threshold reached")
else:
    print("all good")
```

```
temperature is: 21
humidity is: 55
all good
>
```

main.py

Run

Shell

Clear

```
import random
def temp():
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```
temperature is: 21
humidity is: 55
all good
>
```