PROBLEM STATEMENT:

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
temperature=temp()
humidity=humidity()
print("temperature is=",temperature)
```

```
print("humidity is=",humidity)
if(temperature>30):
    if(humidity>60):
        print("alert detected")
    else:
        print(" temperature high ")
elif(temp==30):
    print("threshold reached")
else:
    print("all perfect")
```

OUTPUT:

```
main.py
 1 import random
                                                                                  temperature is: 40
  2 - def temp():
                                                                                  humidity is: 47
        temp=random.randint(20,40)
                                                                                  temperature high
         return temp
  5 - def humidity():
       humidity=random.randint(30,70)
         return humidity
  8 temperature=temp()
 9 humidity=humidity()
10 print("temperature is:",temperature)
11 print("humidity is:",humidity)
12 - if(temperature>30):
13 - if(humidity>60):
14 print("alert
            print("alert detected")
            print("temperature high")
 18 print("threshold reached")
 19 + else:
20 print("all perfect")
```

