

## **PROBLEM STATEMENT :**

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

## **DOMAIN :**

Internet of Things

## **ASSIGNMENT 2:**

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

By,

KEERTHI .S- (623519106014)

SOWNTHARYA .S- (623519106039)

BANU SINDHYA. I- (623519106005)

GEETHA. M- (623519106008)

## 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

```
1
2
3 import random
4 def temp():
5     temp=random.randint(20,40)
6     return temp
7 def humidity():
8     humidity=random.randint(30,70)
9     return humidity
10 temp=temp()
11 humidity=humidity()
12 print("temperature is:",temp)
13 print("humidity is:",humidity)
14 if(temp>30):
15     if(humidity>60):
16         print("alert detected")
17     else:
18         print("high temperature detected")
19 elif(temp==30):
20     print("threshold reached")
21 else:
22     print("all good")
23
```

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

main.py

Run

Shell

Clear

```
1
2
3 import random
4 def temp():
5     temp=random.randint(20,40)
6     return temp
7 def humidity():
8     humidity=random.randint(30,70)
9     return humidity
10 temp=temp()
11 humidity=humidity()
12 print("temperature is:",temp)
13 print("humidity is:",humidity)
14 if(temp>30):
15     if(humidity>60):
16         print("alert detected")
17     else:
18         print("high temperature detected")
19 elif(temp==30):
20     print("threshold reached")
21 else:
22     print("all good")
23
```

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

