

PROBLEM STATEMENT :

IoT Based Smart crop protection 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.

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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

```
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
> |
```