

# **PROBLEM STATEMENT :**

IoT Based Signs with smart connectivity for better road safety

## **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
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
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  
> |