

PROBLEM STATEMENT :

IoT Based Safety Gadget for Child Safety
Monitoring and Notification

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 temperature():
    temperature=random.randint(20,40)
    return temperature
def humidity():
    humidity=random.randint(30,70)
    return humidity
temperature=temperature()
humidity=humidity()
print("Temperature is:",temperature)
print("humidity is:",humidity)
if(temperature>30):
    if(humidity>60):
        print("alert detected")
    else:
        print("high temperature detected")
elif(temperature==30):
    print("THRESHOLD REACHED")
else:
    print("PERFECT")
```




OUTPUT 1:

```
Temperature is: 21
Humidity is: 55
PERFECT
```

OUTPUT 2:

```
Temperature is: 37
Humidity is: 68
alert detected
```

main.py	  	Shell
<pre>1 import random 2 def temperature(): 3 temperature=random.randint(20,40) 4 return temperature 5 def humidity(): 6 humidity=random.randint(30,70) 7 return humidity 8 temperature=temperature() 9 humidity=humidity() 10 print("Temperature is:",temperature) 11 print("humidity is:",humidity) 12 if(temperature>30): 13 if(humidity>60): 14 print("alert detected") 15 else: 16 print("high temperature detected") 17 elif(temperature==30): 18 print("THRESHOLD REACHED") 19 else: 20 print("PERFECT") 21</pre>		<pre>Temperature is: 22 humidity is: 55 PERFECT > </pre>

main.py	  	Shell
<pre>1 import random 2 def temperature(): 3 temperature=random.randint(20,40) 4 return temperature 5 def humidity(): 6 humidity=random.randint(30,70) 7 return humidity 8 temperature=temperature() 9 humidity=humidity() 10 print("Temperature is:",temperature) 11 print("humidity is:",humidity) 12 if(temperature>30): 13 if(humidity>60): 14 print("alert detected") 15 else: 16 print("high temperature detected") 17 elif(temperature==30): 18 print("THRESHOLD REACHED") 19 else: 20 print("PERFECT") 21</pre>		<pre>Temperature is: 37 humidity is: 64 alert detected > </pre>

