

Problem statement : IoT Based Gas Leakage Monitoring and Alerting System for industries..

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,

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Python code:

```
import random  
  
temp=random.randint(1,100)  
humid=random.randint(1,100)  
print(temp)
```

```
print(humid)
if(temp>30 & humid<50):
print("Alarm detected")
elif(temp>30 & humid>50):
print("Alarm detected")
elif(temp<30 & humid<50):
print("Alarm not detected")
elif(temp<30 & humid>50):
print("Alaram not detected")
```

OUTPUT:

i) 30

19

Alarm not detected.

ii) 57

97

Alarm detected.

```
main.py
1 import random
2 temp=random.randint(1,100)
3 humid=random.randint(1,100)
4 print(temp)
5 print(humid)
6 if(temp>30 & humid<50):
7     print("Alarm detected")
8 elif(temp>30 & humid>50):
9     print("Alarm detected")
10 elif(temp<30 & humid<50):
11     print("Alarm not detected")
12 elif(temp<30 & humid>50):
13     print("Alaram not detected")
14
```

input

```
19
20
Alarm not detected

...Program finished with exit code 0
Press ENTER to exit console.
```

```
main.py
1 import random
2 temp=randomos.randint(1,100)
3 humid=randomos.randint(1,100)
4 print(temp)
5 print(humid)
6 if(temp>30 & humid<50):
7     print("Alarm detected")
8 elif(temp>30 & humid>50):
9     print("Alarm detected")
10 elif(temp<30 & humid<50):
11     print("Alarm not detected")
12 elif(temp<30 & humid>50):
13     print("Alaram not detected")
14
```

input

```
57
97
Alarm detected

...Program finished with exit code 0
Press ENTER to exit console.
```