PROBLEM STATEMENT:

IoT Based Smart Solution for Railways

DOMAIN:

Internet of Things

Assignment 2:

Assume u get temperatureand humidity values (generated with random function to a variable) and write acondition 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
temperature=temp()
humidity=humidity()
print("temperature is=",temperature)
```

```
print("humidity is=",humidity)
if(temperature>30):
    if(humidity>60):
        print("alert detected")
    else:
        print(" temperature high ")
elif(temp==30):
    print("threshold reached")
else:
    print("all perfect")
```

OUTPUT:

```
main.pv
                                                                               temperature is: 40
                                                                               humidity is: 47
  3 temp=random.randint(20,40)
                                                                               temperature high
        return temp
  5 - def humidity():
 6 humidity=random.randint(30,70)
7 return humidity
 8 temperature=temp()
 9 humidity=humidity()
 10 print("temperature is:",temperature)
 11 print("humidity is:",humidity)
12 - if(temperature>30):
13 · if(humidity>60):
14 print("alert
15 · else:
            print("alert detected")
         print("temperature high")
 17 - elif(temp==30):
18 print("threshold reached")
20 print("all perfect")
```

