

□ PROBLEM STATEMENT :

IoT Based Smart Solution for Railways

□ 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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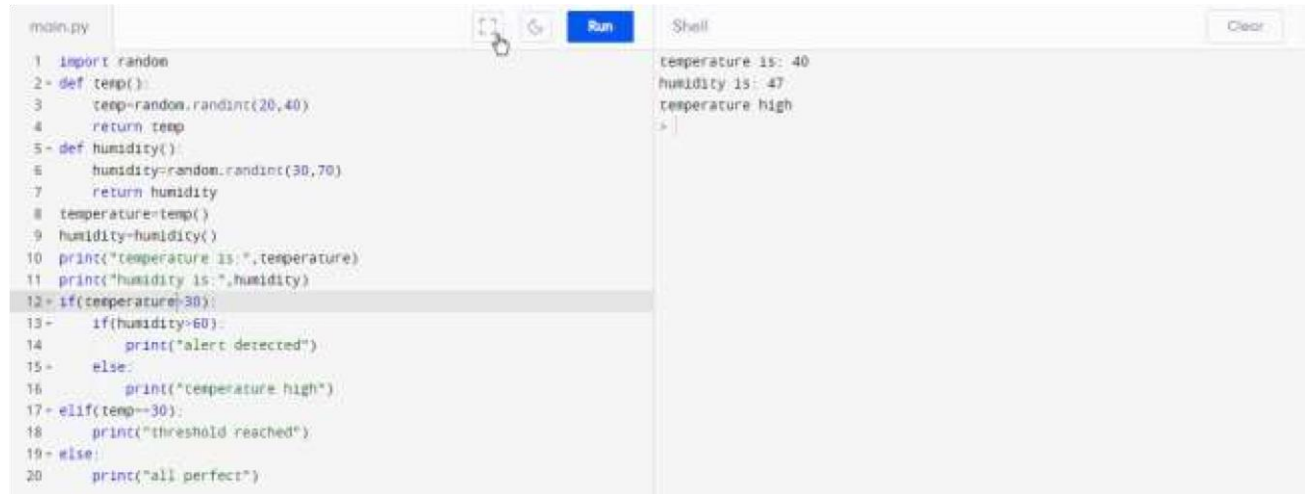
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PYTHON CODE:

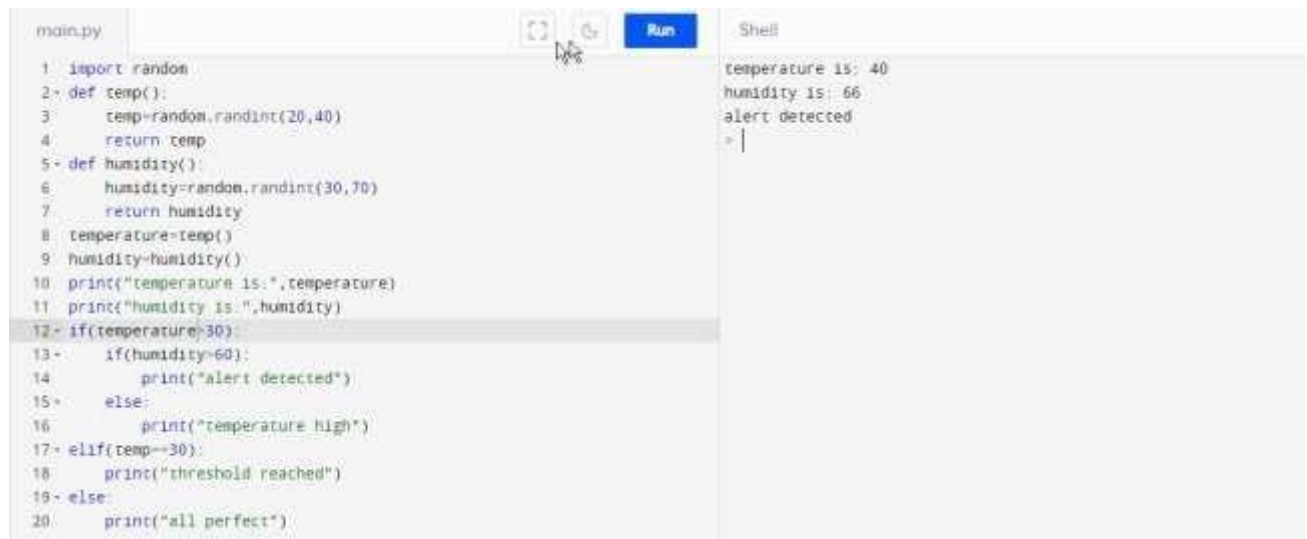
```
import random
def temp():
    temp=random.randint(20,40)    return temp
def humidity():
    humidity=random.randint(30,70)
    return humidity
temperature=temp()
humidity=humidity()
print("temperature is=",temperature)
print("humidity is=",humidity)
if(temperature>30):
    if(humidity>60):
        print("alert detected")    else:        print("
temperature high ")
    elif(temp==30):
        print("threshold reached")
    else: print("all perfect")
```

OUTPUT:



```
main.py
1 import random
2 def temp():
3     temp=random.randint(20,40)
4     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 detected")
15     else:
16         print("temperature high")
17 elif(temp==30):
18     print("threshold reached")
19 else:
20     print("all perfect")
```

temperature is: 40
humidity is: 47
temperature high



```
main.py
1 import random
2 def temp():
3     temp=random.randint(20,40)
4     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 detected")
15     else:
16         print("temperature high")
17 elif(temp==30):
18     print("threshold reached")
19 else:
20     print("all perfect")
```

temperature is: 40
humidity is: 66
alert detected