- **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.

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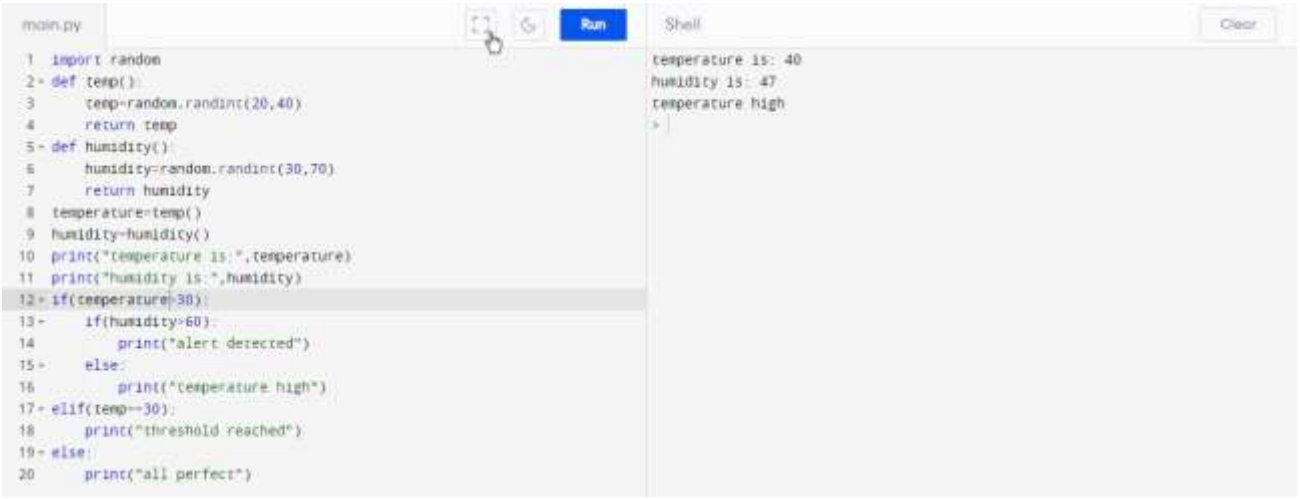
PYTHON CODE:

```
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
Run
Shell
Clear
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
Run
Shell
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