 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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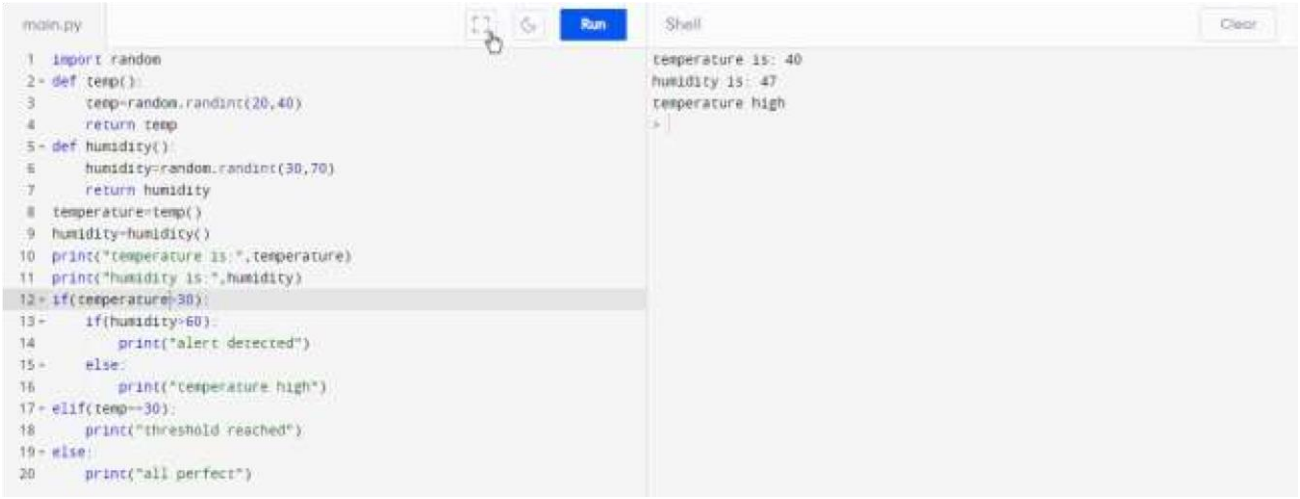
PYTHON CODE:

```
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
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")
temperature is: 40
humidity is: 47
temperature high


main.py
Run
Shell
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")
temperature is: 40
humidity is: 66
alert detected