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.

By,

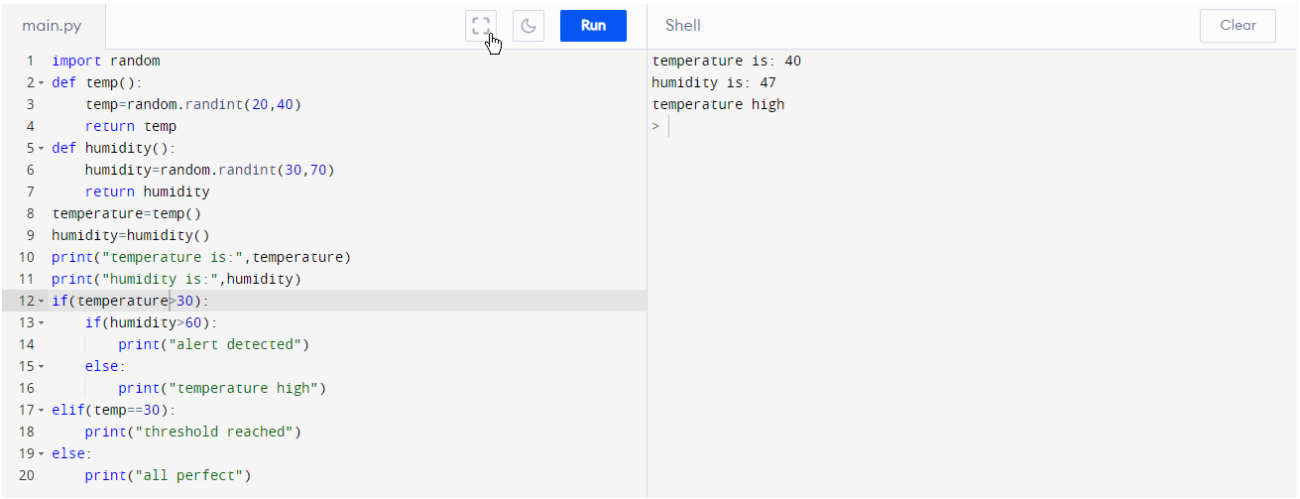
SARANKUMAR S(62359106034)
RANJITHKUMAR S(623519106028)
NAVEENKUMAR J(623519106021)
ILAIYAKANNU T(623519106010)

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

```python
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")
```

Shell

```
temperature is: 40
humidity is: 66
alert detected
>
```