

Assignment -2

Internet of Things

QUESTION:

Build a python code, assume u get temperature and humidity values (generated with random function to a variable) and a write a condition to continuously detect alarm in case of high temperature.

SOLUTION:

```
import random
import time

while (True):
    temperature = random. randint (0,1024)
    print (f' Temperature = {temperature} ')
    if temp > 600:
        print ('temperature is high \n ===== ')
    time. sleep (4)
```

A screenshot of a Python IDE window titled 'main.py'. The code is as follows:

```
1 import random
2 import time
3
4 while(True):
5     temperature =random.randint(0,1024)
6     print(f'Temperature = {temperature} ')
7     if temperature>600:
8         print('Temperature is high\n ===== ')
9
10    time.sleep(4)
11
```

The IDE interface includes a left sidebar with icons for Python, a file explorer, a terminal, and a console. On the right side of the code editor, there are icons for running the code (a play button), a settings gear, and a blue 'Run' button.

```
Temperature = 13
Temperature = 65
Temperature = 855
Temperature is high
=====
Temperature = 993
Temperature is high
=====
```