

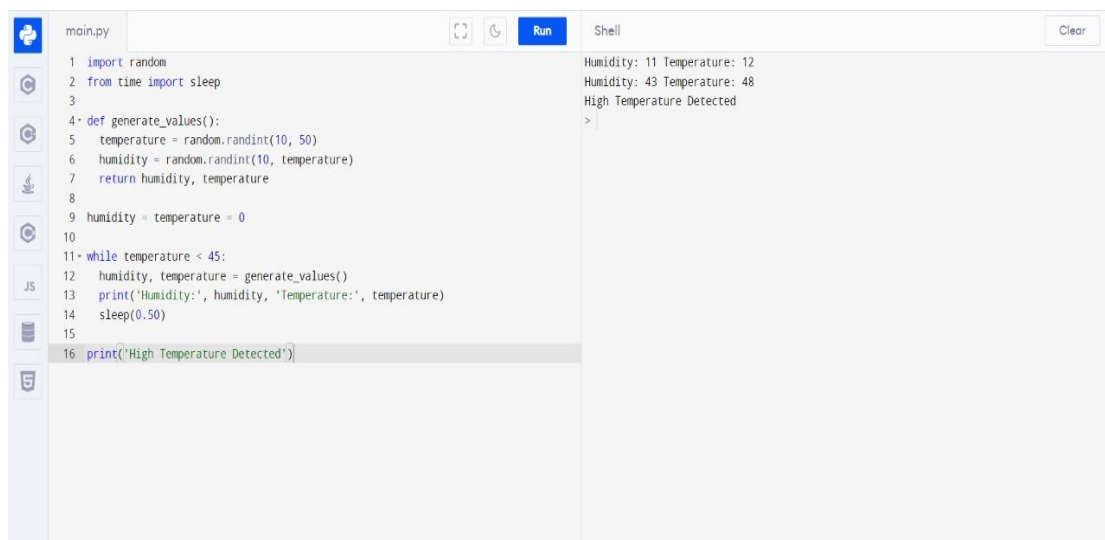
Assignment -2

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

CODE:

```
import random
from time import sleep
def generate_values():
    temperature = random.randint(10, 50)
    humidity = random.randint(10, temperature)
    return humidity, temperature
humidity = temperature = 0
while temperature < 45:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)
print('High Temperature Detected')
```

OUTPUT:

A screenshot of a Python IDE interface. On the left, a file named 'main.py' is open, displaying the Python code from the previous block. The code is numbered 1 to 16. On the right, a 'Shell' window shows the output of the program: 'Humidity: 11 Temperature: 12', 'Humidity: 43 Temperature: 48', and 'High Temperature Detected'. The 'Run' button is visible above the shell window, and a 'Clear' button is in the top right corner of the shell area.

```
main.py  Run  Shell  Clear

1 import random
2 from time import sleep
3
4 def generate_values():
5     temperature = random.randint(10, 50)
6     humidity = random.randint(10, temperature)
7     return humidity, temperature
8
9 humidity = temperature = 0
10
11 while temperature < 45:
12     humidity, temperature = generate_values()
13     print('Humidity:', humidity, 'Temperature:', temperature)
14     sleep(0.50)
15
16 print('High Temperature Detected')
```

```
Humidity: 11 Temperature: 12
Humidity: 43 Temperature: 48
High Temperature Detected
>
```