

Assignment -2

Assignment Date	27 September 2022
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Question :

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

CODE:

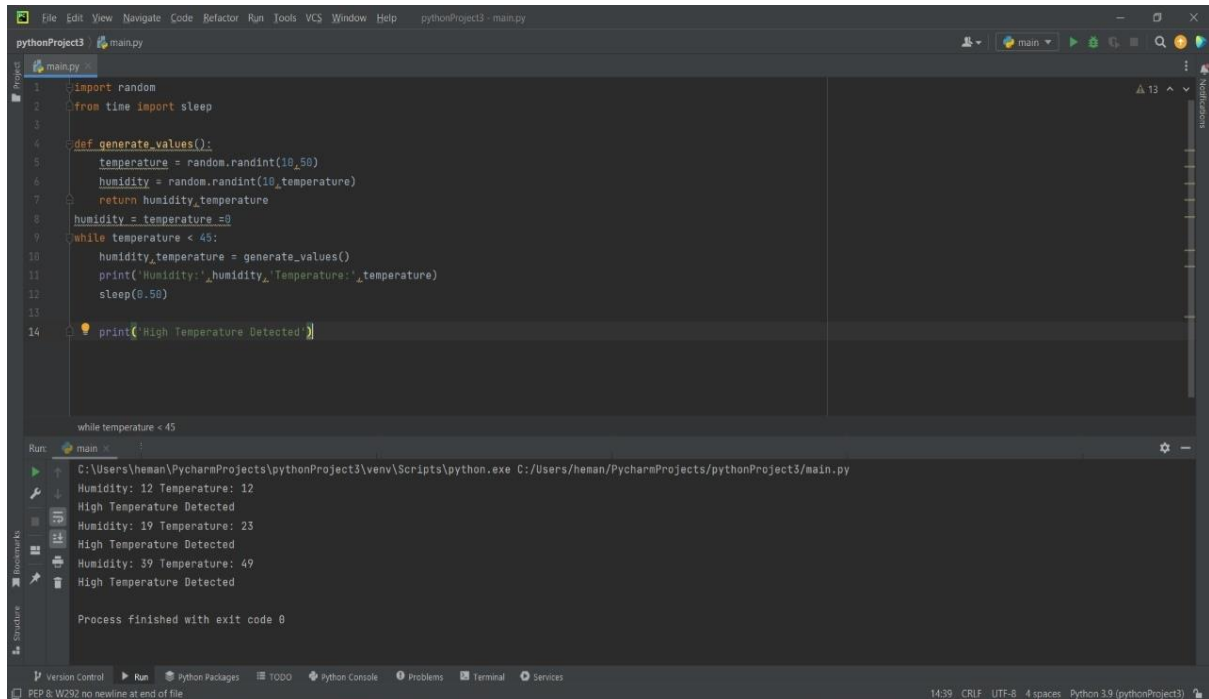
```
import random
from time import sleep

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:



The screenshot shows the PyCharm IDE interface. The main editor window displays a Python script named `main.py` with the following code:

```
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 while temperature < 45:
11     humidity,temperature = generate_values()
12     print('Humidity:',humidity,'Temperature:',temperature)
13     sleep(0.50)
14
15 print('High Temperature Detected')

```

Below the editor, the Run console shows the output of the script:

```
Run: main
C:\Users\heman\PycharmProjects\pythonProject3\venv\Scripts\python.exe C:/Users/heman/PycharmProjects/pythonProject3/main.py
Humidity: 12 Temperature: 12
High Temperature Detected
Humidity: 19 Temperature: 23
High Temperature Detected
Humidity: 39 Temperature: 49
High Temperature Detected
Process finished with exit code 0

```

The status bar at the bottom indicates the file encoding is UTF-8, the line length is 1439, and the Python version is 3.9 (pythonProject3).