Internet of Things Assignment

Assignment 2:
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.

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Python Code:
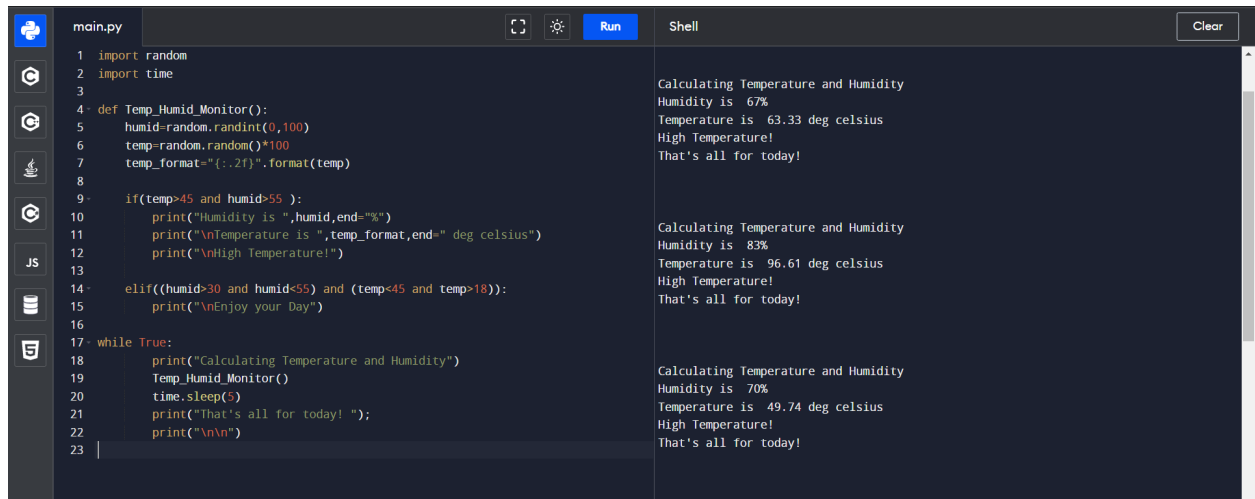
```python
import random
import time

def Temp_Humid_Monitor():
    humid=random.randint(0,100)
    temp=random.random()*100
    temp_format="{:.2f}".format(temp)

    if(temp>45 and humid>55 ):
        print("Humidity is ",humid,end="%")
        print("\nTemperature is ",temp_format,end=" deg celsius")
        print("\nHigh Temperature!")

    elif((humid>30 and humid<55) and (temp<45 and temp>18)):
        print("\nEnjoy your Day")

while True:
    print("Calculating Temperature and Humidity")
    Temp_Humid_Monitor()
    time.sleep(5)
    print("That's all for today! ");
    print("\n\n")
```

Screenshot:

```python
import random
import time

def Temp_Humid_Monitor():
    humid=random.randint(0,100)
    temp=random.random()*100
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    if(temp>45 and humid>55 ):
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        print("\nEnjoy your Day")

while True:
    print("Calculating Temperature and Humidity")
    Temp_Humid_Monitor()
    time.sleep(5)
    print("That's all for today! ");
    print("\n\n")
```

```
Calculating Temperature and Humidity
Humidity is  67%
Temperature is  63.33 deg celsius
High Temperature!
That's all for today!


Calculating Temperature and Humidity
Humidity is  83%
Temperature is  96.61 deg celsius
High Temperature!
That's all for today!


Calculating Temperature and Humidity
Humidity is  70%
Temperature is  49.74 deg celsius
High Temperature!
That's all for today!
```