Assignment - 2

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Python code :

```python
import random
import time


# iterate the random values of Temperature and humidity within the specified range.
while True:
    temperature = random.randint(32, 212)
    humidity = random.randint(0, 100)
    #print the values of Temperature and humidity.
    print("Temperature is : "+str(temperature)+"°F")
    print("Temperature in celsius : "+str(((temperature-32)*5)//9)+"°C")
    print("The Humidity is : "+str(humidity)+"%")
    # check if the temperature values are higher than 100°F.
    if (temperature >= 100):
        print("High Temperature Alert : "+str(temperature)+"°F")
        time.sleep(10)
```

OUTPUT :

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/HP/AppData/Local/Programs/Python/Python310/assign2.py ===
Temperature is : 160°F
Temperature in celsius : 71℃
The Humidity is : 51%
High Temperature Alert : 160°F
Temperature is : 183°F
Temperature in celsius : 83℃
The Humidity is : 87%
High Temperature Alert : 183°F
Temperature is : 148°F
Temperature in celsius : 64℃
The Humidity is : 49%
High Temperature Alert : 148°F
Temperature is : 162°F
Temperature in celsius : 72℃
The Humidity is : 48%
High Temperature Alert : 162°F
Temperature is : 111°F
Temperature in celsius : 43℃
The Humidity is : 82%
High Temperature Alert : 111°F
```