

Assignment 2:

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

```
import random
import time
```

```
while True:
```

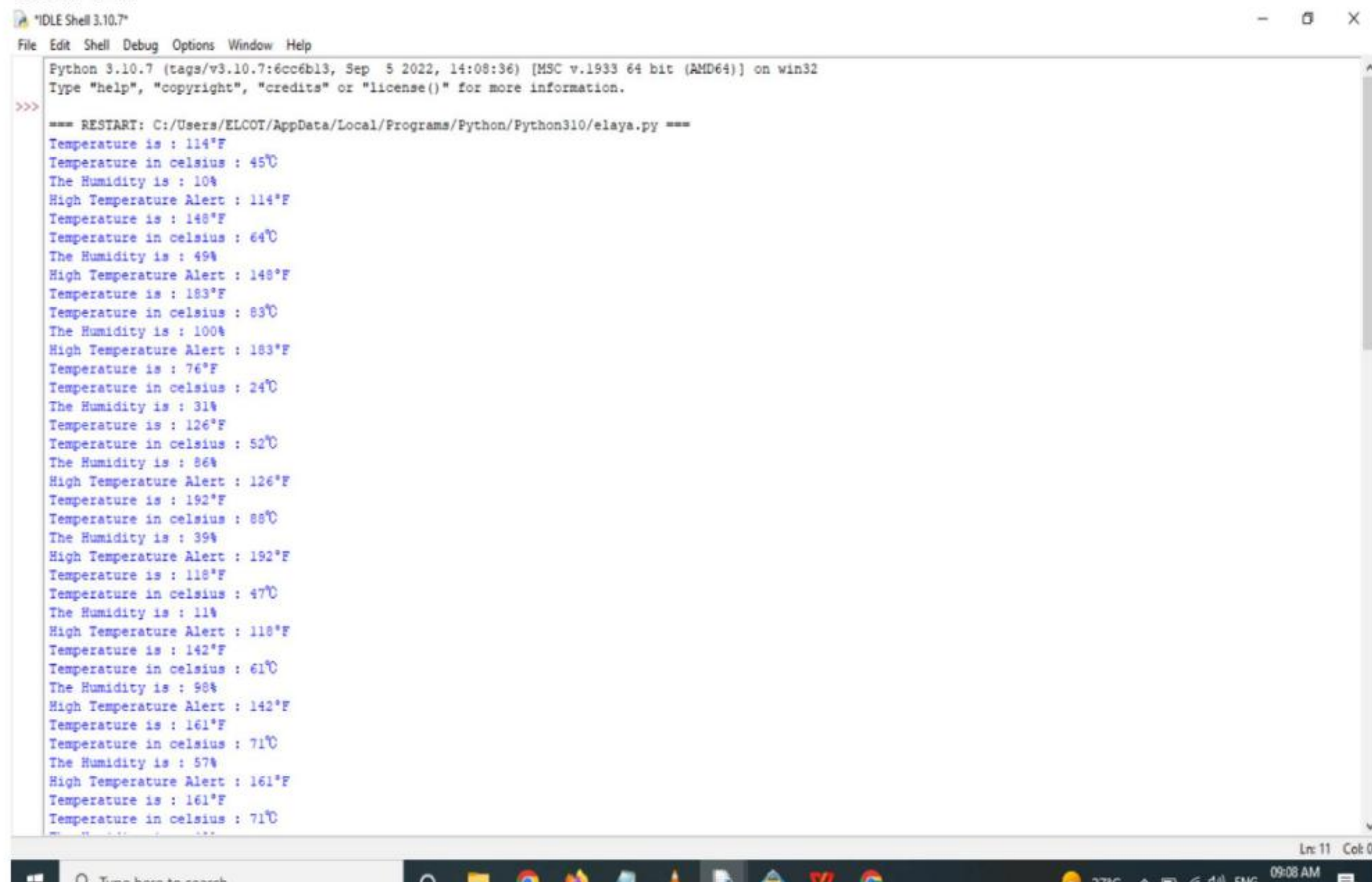
```
    temperature = random.randint(32, 212)
    humidity = random.randint(0, 100)
```

```
    print("Temperature is : "+str(temperature)+"°F")
    print("Temperature in celsius : "+str(((temperature-32)*5)//9)+"°C")
    print("The Humidity is : "+str(humidity)+"%")
```

```
    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/ELCOT/AppData/Local/Programs/Python/Python310/elaya.py ====
Temperature is : 114°F
Temperature in celsius : 45°C
The Humidity is : 10%
High Temperature Alert : 114°F
Temperature is : 148°F
Temperature in celsius : 64°C
The Humidity is : 49%
High Temperature Alert : 148°F
Temperature is : 183°F
Temperature in celsius : 83°C
The Humidity is : 100%
High Temperature Alert : 183°F
Temperature is : 76°F
Temperature in celsius : 24°C
The Humidity is : 31%
Temperature is : 126°F
Temperature in celsius : 52°C
The Humidity is : 86%
High Temperature Alert : 126°F
Temperature is : 192°F
Temperature in celsius : 88°C
The Humidity is : 39%
High Temperature Alert : 192°F
Temperature is : 118°F
Temperature in celsius : 47°C
The Humidity is : 11%
High Temperature Alert : 118°F
Temperature is : 142°F
Temperature in celsius : 61°C
The Humidity is : 98%
High Temperature Alert : 142°F
Temperature is : 161°F
Temperature in celsius : 71°C
The Humidity is : 57%
High Temperature Alert : 161°F
Temperature is : 161°F
Temperature in celsius : 71°C
```