

Innovation ,Employability and Entrepreneurship

ASSIGNMENT 2

PYTHON PROGRAM FOR TEMPERATURE AND HUMIDITY

Submitted by

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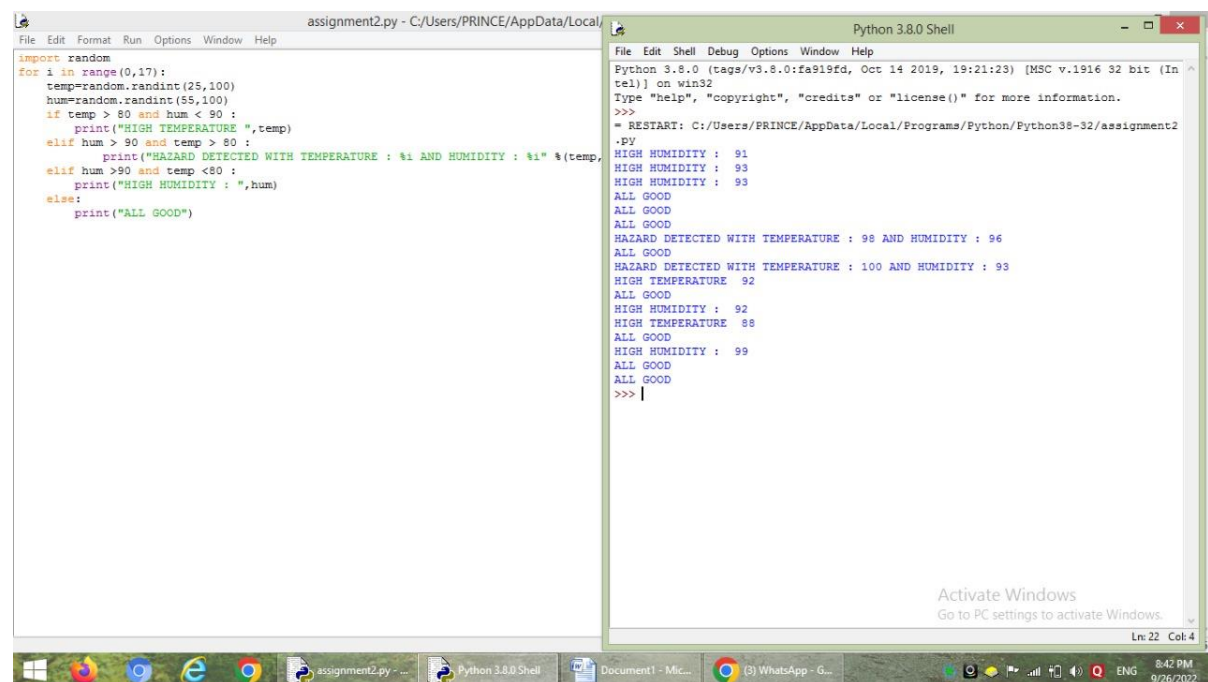
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CODE:

Python Program:-

```
import random
for i in range(0,17):
    temp=random.randint(25,100)
    hum=random.randint(55,100)
    if temp > 80 and hum < 90 :
        print("HIGH TEMPERATURE ",temp)
    elif hum > 90 and temp > 80 :
        print("HAZARD DETECTED WITH TEMPERATURE : %i AND
HUMIDITY : %i" %(temp,hum))
    elif hum >90 and temp <80 :
        print("HIGH HUMIDITY : ",hum)
    else:
        print("ALL GOOD")
```

OUTPUT:



```
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/PRINCE/AppData/Local/Programs/Python/Python38-32/assignment2
.py
HIGH HUMIDITY : 91
HIGH HUMIDITY : 93
HIGH HUMIDITY : 93
ALL GOOD
ALL GOOD
ALL GOOD
HAZARD DETECTED WITH TEMPERATURE : 98 AND HUMIDITY : 96
ALL GOOD
HAZARD DETECTED WITH TEMPERATURE : 100 AND HUMIDITY : 93
HIGH TEMPERATURE 92
ALL GOOD
HIGH HUMIDITY : 92
HIGH TEMPERATURE 88
ALL GOOD
HIGH HUMIDITY : 99
ALL GOOD
ALL GOOD
>>>
```

Description:

Here we use random function used to generate the integer value of temperature and humidity within the given limit. A threshold value is set for humidity and temperature. If the temperature and humidity value is high the "HAZARD DETECTED" is printed with the value of temperature and humidity. Else "ALL GOOD" is printed.

