IBM ASSIGNMENT-2

```
PYTHON CODE:
import random
import time
while(1!=0):
 temperature = random.random() humidity
 = random.random()
 #round(temperature,2)
                         #round(humidity,2)
 ("print Temperature: ","%.5f" % temperature)
 print("Humidity: ","%.5f"
                              %
                                  humidity)
 time.sleep(2) if (temperature
                                       0.7):
 print("high temperature")
 if (humidity >0.7):
   print("high humidity")
   import time
   from w1thermsensor import
   W1ThermSensor
   sensor = W1ThermSensor()
   while True:
     temperature =
   sensor.get_temperature()
     print("The temperature is %s
   celsius" % temperature)
     time.sleep(1)
```

print("")

EXECUTION RESULT

Program

```
import time

from w1thermsensor import W1ThermSensor

sensor = W1ThermSensor()

while True:

   temperature = sensor.get_temperature()

   print("The temperature is %s celsius" % temperature)

   time.sleep(1)
```

눩 assignment2.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/assignment2.py (3.10.1)

```
File Edit Format Run Options Window Help
import random
import time
while (1!=0):
    temperature = random.random()
    humidity = random.random()

#round(temperature, 2) #round(humidity, 2)
print("Temperature: ", "%.5f" % temperature)
print("Humidity: ", "%.5f" % humidity)
time.sleep(2)
if (temperature > 0.7):
    print("high temperature")
if (humidity >0.7):
    print("high humidity")
print("")
```

Temperature: 0.81853 Humidity: 0.97255 high temperature high humidity

Temperature: 0.15472 Humidity: 0.05986

Temperature: 0.62464 Humidity: 0.32342

Temperature: 0.83487 Humidity: 0.76008 high temperature high humidity

Temperature: 0.14701 Humidity: 0.48039

Temperature: 0.79227 Humidity: 0.24788 high temperature

Temperature: 0.87672 Humidity: 0.33046 high temperature

Temperature: 0.67236 Humidity: 0.16511

Temperature: 0.14797 Humidity: 0.59022

Temperature: 0.51479 Humidity: 0.54463

Temperature: 0.25142 Humidity: 0.12738

Temperature: 0.17346 Humidity: 0.24678

Temperature: 0.37653 Humidity: 0.64490