ASSIGNMENT-2

TEAM CODE: PNT2022TMID00858

CODE:

```
print('\tWelcome Assignment 2 \nTemperature & Humidity level Monitoring\n')

import

random

import time

while True:

temperature = random.randint(-

15,100) humidity =

random.randint(1,100)

print(f"Checking Temperature:

{temperature}"u'\N{DEGREE SIGN}'"C"); print(f"Checking

Humidity: {humidity}%");

f = (temperature * 1.8 ) +32

print("Temperature in Fahreheit

is:",f)

#Humidity Measurement

if humidity >= 100:

print(f"{humidity}% it is a Humid

humudity level")elif 65<humidity<100 :

print(f"{humidity}% it is a Prefect

humudity level")else :

print(f"{humidity}% it is a Dry humudity level")

#Temperature Measurement

if temperature >=37:

print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Hot Temperature\n
Alarm is activated \nNotification is Notified")

elif temperature==37:

print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Normal Temperature")
```

else:

print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Cold Temperature")

print(' Humidity level & Temperature level is

Monitored and Saved.\n')time.sleep

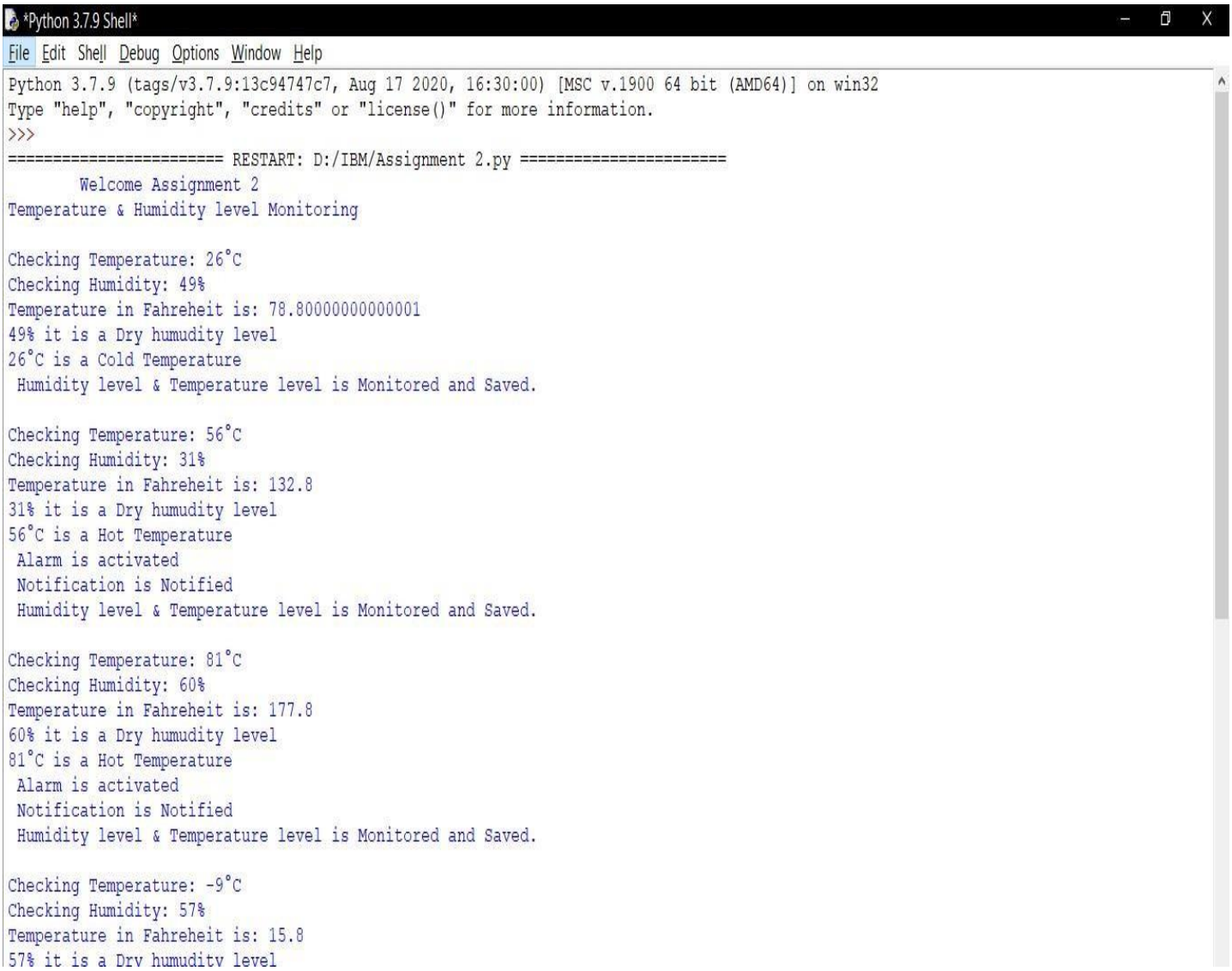
INPUT CODE:

Assignment 2.py - D:/IBM/Assignment 2.py (3.7.9)

File Edit Format Run Options Window Help

```
print('\tWelcome Assignment 2 \nTemperature & Humidity level Monitoring\n')

import random
import time
while True:
    temperature = random.randint(-15,100)
    humidity = random.randint(1,100)
    print(f"Checking Temperature: {temperature}"u'\N{DEGREE SIGN}'"C");
    print(f"Checking Humidity: {humidity}%");
    f = (temperature * 1.8 ) +32
    print("Temperature in Fahreheit is:",f)

    #Humidity Measurement

    if humidity >= 100:
        print(f"{humidity}% it is a Humid humudity level")
    elif 65<humidity<100 :
        print(f"{humidity}% it is a Prefect humudity level")
    else :
        print(f"{humidity}% it is a Dry humudity level")

    #Temperature Measurement

    if temperature >=37:
        print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Hot Temperature\n Alarm is activated \n Notification is Notified")
    elif temperature==37:
      print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Normal Temperature")
    else:
       print(f"{temperature}"u'\N{DEGREE SIGN}'"C is a Cold Temperature")

    print(' Humidity level & Temperature level is Monitored and Saved.\n')
    time.sleep(5)
```

OUTPUT :


Python 3.7.9 Shell
File Edit Shell Debug Options Window Help
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/IBM/Assignment 2.py ==========
Welcome Assignment 2
Temperature & Humidity level Monitoring
Checking Temperature: 26°C
Checking Humidity: 49%
Temperature in Fahreheit is: 78.80000000000001
49% it is a Dry humudity level
26°C is a Cold Temperature
Humidity level & Temperature level is Monitored and Saved.
Checking Temperature: 56°C
Checking Humidity: 31%
Temperature in Fahreheit is: 132.8
31% it is a Dry humudity level
56°C is a Hot Temperature
Alarm is activated
Notification is Notified
Humidity level & Temperature level is Monitored and Saved.
Checking Temperature: 81°C
Checking Humidity: 60%
Temperature in Fahreheit is: 177.8
60% it is a Dry humudity level
81°C is a Hot Temperature
Alarm is activated
Notification is Notified
Humidity level & Temperature level is Monitored and Saved.
Checking Temperature: -9°C
Checking Humidity: 57%
Temperature in Fahreheit is: 15.8
57% it is a Dry humudity level