Assignment -2
PYTHON PROGRAMMING

Assignment Date	19 September 2022
Student Name	**Mr.KANNAN J S**
Student Roll Number	**911019106005**
Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u 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

Solution:

PROGRAM:

```
import random

import time


while True:

    temp = random.randint(1,200)

    humidity = random.randint(1,100)

    print("Checking Temperature:{temp1}C \n Checking
Humidity:{humidity1}F".format(temp1=temp,humidity1=humidity))

    if temp>=80:

        print("Temperature is {temp2}C \n Alarm Detected...".format(temp2=temp))

        time.sleep(1)

    else:

        print("Temperature is low")

        break
```
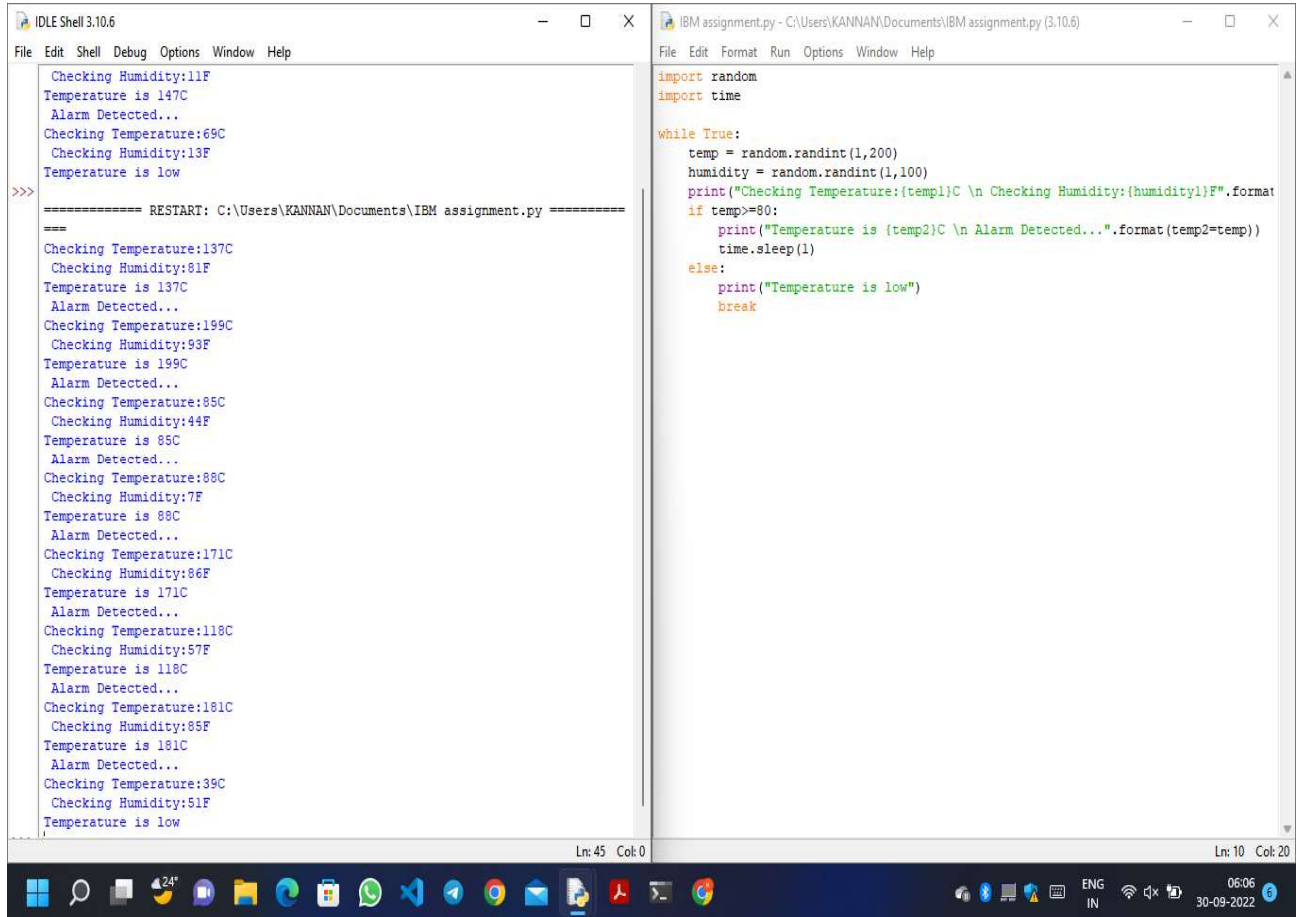
OUTPUT:

IDLE Shell 3.10.6 output:
```
 Checking Humidity:11F
Temperature is 147C
 Alarm Detected...
Checking Temperature:69C
 Checking Humidity:13F
Temperature is low
>>>
=========== RESTART: C:\Users\KANNAN\Documents\IBM assignment.py ==========
===
Checking Temperature:137C
 Checking Humidity:81F
Temperature is 137C
 Alarm Detected...
Checking Temperature:199C
 Checking Humidity:93F
Temperature is 199C
 Alarm Detected...
Checking Temperature:85C
 Checking Humidity:44F
Temperature is 85C
 Alarm Detected...
Checking Temperature:88C
 Checking Humidity:7F
Temperature is 88C
 Alarm Detected...
Checking Temperature:171C
 Checking Humidity:86F
Temperature is 171C
 Alarm Detected...
Checking Temperature:118C
 Checking Humidity:57F
Temperature is 118C
 Alarm Detected...
Checking Temperature:181C
 Checking Humidity:85F
Temperature is 181C
 Alarm Detected...
Checking Temperature:39C
 Checking Humidity:51F
Temperature is low
```

IBM assignment.py code:
```python
import random
import time

while True:
    temp = random.randint(1,200)
    humidity = random.randint(1,100)
    print("Checking Temperature:{temp1}C \n Checking Humidity:{humidity1}F".format
    if temp>=80:
        print("Temperature is {temp2}C \n Alarm Detected...".format(temp2=temp))
        time.sleep(1)
    else:
        print("Temperature is low")
        break
```