

IBM ASSIGNMENT 2

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Q) Build a python code to continuously detect temperature and humidity values (given using random function) and alarm in case of high temperature.

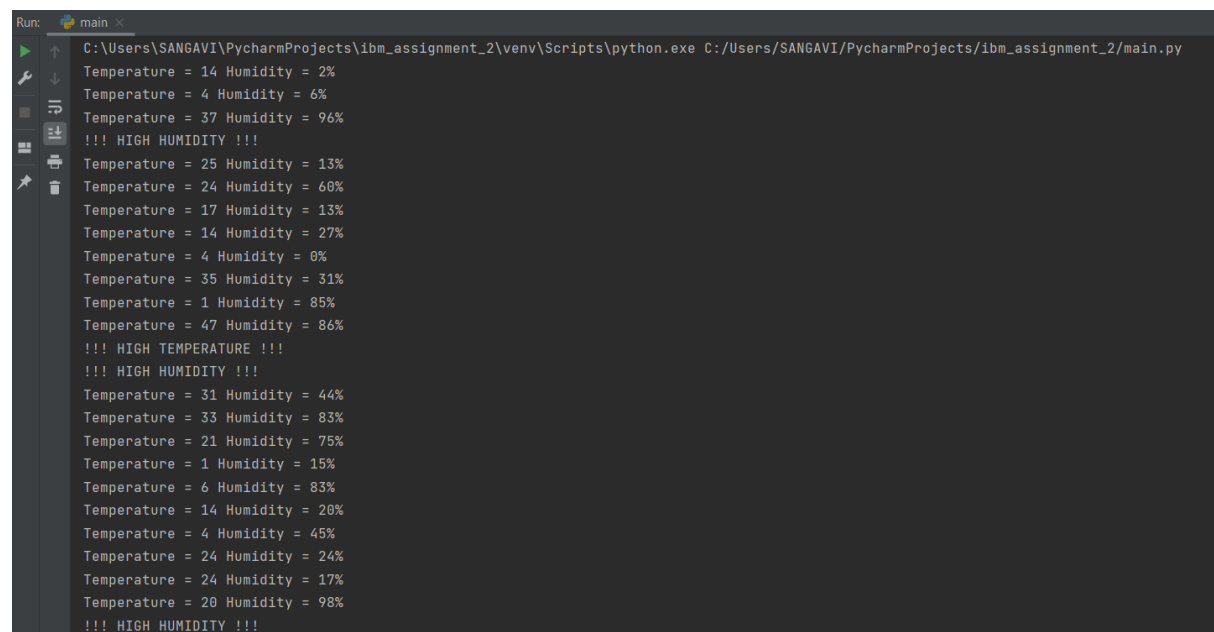
CODE

```
import random
import time

while True:
    temp = random.randint(0,50)
    humidity = random.randint(0,100)
    print(f"Temperature = {temp} Humidity = {humidity}%")
    if temp > 40:
        print("!!! HIGH TEMPERATURE !!!")

    if humidity > 85:
        print("!!! HIGH HUMIDITY !!!")
    time.sleep(3)
```

OUTPUT



```
Run: main x
C:\Users\SANGAVI\PycharmProjects\ibm_assignment_2\venv\Scripts\python.exe C:/Users/SANGAVI/PycharmProjects/ibm_assignment_2/main.py
Temperature = 14 Humidity = 2%
Temperature = 4 Humidity = 6%
Temperature = 37 Humidity = 96%
!!! HIGH HUMIDITY !!!
Temperature = 25 Humidity = 13%
Temperature = 24 Humidity = 60%
Temperature = 17 Humidity = 13%
Temperature = 14 Humidity = 27%
Temperature = 4 Humidity = 0%
Temperature = 35 Humidity = 31%
Temperature = 1 Humidity = 85%
Temperature = 47 Humidity = 86%
!!! HIGH TEMPERATURE !!!
!!! HIGH HUMIDITY !!!
Temperature = 31 Humidity = 44%
Temperature = 33 Humidity = 83%
Temperature = 21 Humidity = 75%
Temperature = 1 Humidity = 15%
Temperature = 6 Humidity = 83%
Temperature = 14 Humidity = 20%
Temperature = 4 Humidity = 45%
Temperature = 24 Humidity = 24%
Temperature = 24 Humidity = 17%
Temperature = 20 Humidity = 98%
!!! HIGH HUMIDITY !!!
```