

Student Name	B.Krishnaraj
Student Roll Number	73771921155
Maximum marks	2 Marks

IBM ASSIGNMENT 2

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.

PROGRAM:

```
import random

import time

while(1!=0):

    temperature = random.random()

    humidity = random.random()

    print("Temperature: ", "%.3f" % temperature)

    print("Humidity: ", "%.3f" % humidity)

    time.sleep(2)

    if (temperature > 0.5):

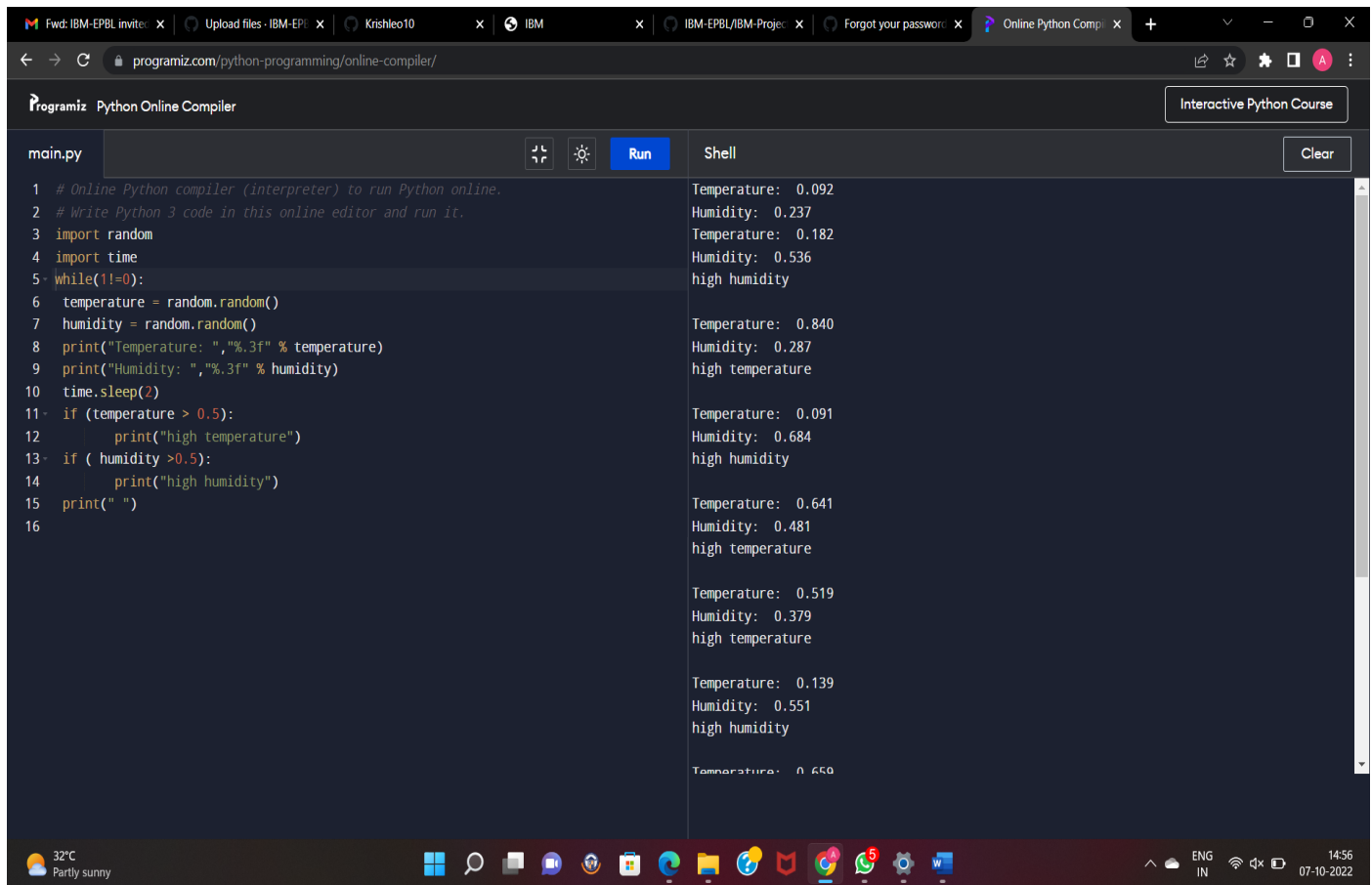
        print("high temperature")

    if ( humidity >0.5):

        print("high humidity")

    print(" ")
```

Output:



The screenshot displays the Programiz Python Online Compiler interface. The code in `main.py` generates random temperature and humidity values, prints them, and checks for high values. The Shell output shows the results of the code execution.

```
1 # Online Python compiler (interpreter) to run Python online.
2 # Write Python 3 code in this online editor and run it.
3 import random
4 import time
5 while(1!=0):
6     temperature = random.random()
7     humidity = random.random()
8     print("Temperature: ", "%.3f" % temperature)
9     print("Humidity: ", "%.3f" % humidity)
10    time.sleep(2)
11    if (temperature > 0.5):
12        print("high temperature")
13    if ( humidity >0.5):
14        print("high humidity")
15    print(" ")
16
```

Shell Output:

```
Temperature: 0.092
Humidity: 0.237
Temperature: 0.182
Humidity: 0.536
high humidity

Temperature: 0.840
Humidity: 0.287
high temperature

Temperature: 0.091
Humidity: 0.684
high humidity

Temperature: 0.641
Humidity: 0.481
high temperature

Temperature: 0.519
Humidity: 0.379
high temperature

Temperature: 0.139
Humidity: 0.551
high humidity

Temperature: 0.650
```