

Assignment 2

Assignment date	29th September 2022
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Maximum marks	2 marks

Question:

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:

```
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):

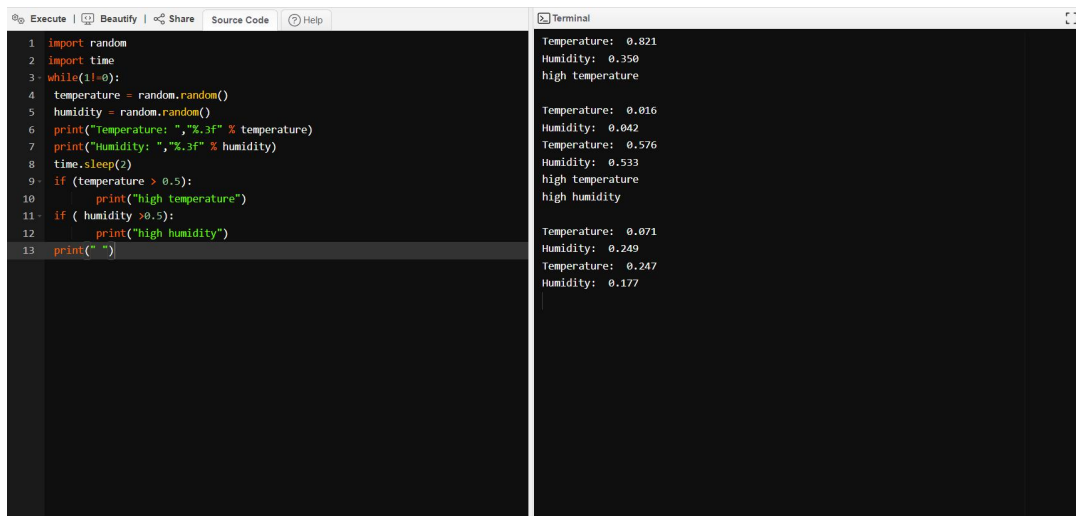
        print("high temperature")

    if ( humidity >0.5):

        print("high humidity")

    print(" ")
```

Output:



The image shows a code editor window with a dark theme. The left pane contains Python code for a loop that generates random temperature and humidity values, prints them, and checks for high values. The right pane shows the terminal output of this code, displaying the generated values and the 'high temperature' and 'high humidity' messages.

```
1 import random
2 import time
3 while(1!=0):
4     temperature = random.random()
5     humidity = random.random()
6     print("Temperature: ", "%.3f" % temperature)
7     print("Humidity: ", "%.3f" % humidity)
8     time.sleep(2)
9     if (temperature > 0.5):
10         print("high temperature")
11     if ( humidity >0.5):
12         print("high humidity")
13 print(" ")
```

Terminal Output:

```
Temperature: 0.821
Humidity: 0.350
high temperature

Temperature: 0.016
Humidity: 0.042
Temperature: 0.576
Humidity: 0.533
high temperature
high humidity

Temperature: 0.071
Humidity: 0.249
Temperature: 0.247
Humidity: 0.177
```