

Assignment -2

Python Programming

Assignment Date	25 th September 2022
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Maximum Marks	2 Marks

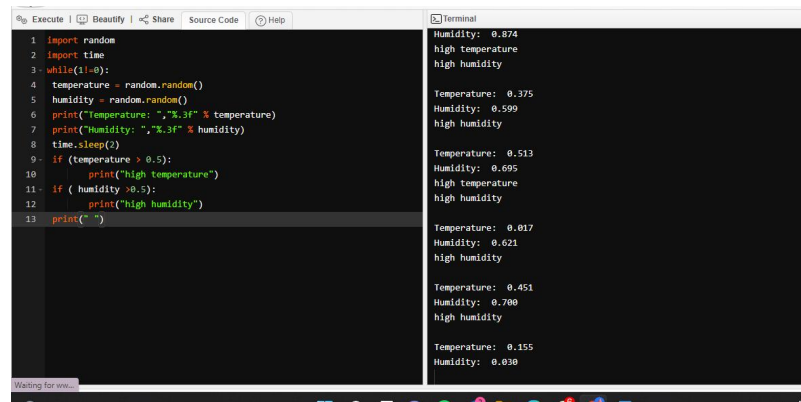
Question-1:

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:

```
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 shows a code editor with a dark theme. The code is as follows:

```
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(" ")
```

The terminal window on the right shows the output of the code, which is repeated every 2 seconds:

```
Humidity: 0.874
high temperature
high humidity

Temperature: 0.375
Humidity: 0.599
high humidity

Temperature: 0.513
Humidity: 0.695
high temperature
high humidity

Temperature: 0.017
Humidity: 0.621
high humidity

Temperature: 0.451
Humidity: 0.708
high humidity

Temperature: 0.155
Humidity: 0.038
```

