

Assignment -2

Assignment Date	24 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, Assume you 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):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>90 or humidity>90:
        print("ALERT!! Detected temperature: "+str(temp)+"°C")
        print("ALERT!! Detected humidity: "+str(humidity)+"°C")
        time.sleep(5)
    else:
        print("Normal temperature:" +str(temp)+"°C")
        print("Normal humidity:" +str(humidity)+"°C")
        time.sleep(5)
```



```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
Normal temperature:77°C
Normal humidity:77°C
Normal temperature:11°C
Normal humidity:11°C
Normal temperature:78°C
Normal humidity:78°C
Normal temperature:21°C
Normal humidity:21°C
Normal temperature:74°C
Normal humidity:74°C
ALERT!! Detected temperature: 99°C
ALERT!! Detected humidity: 8°C
Normal temperature:36°C
Normal humidity:36°C
Normal temperature:17°C
Normal humidity:17°C
Normal temperature:1°C
Normal humidity:1°C
Normal temperature:16°C
Normal humidity:16°C
Normal temperature:61°C
Normal humidity:61°C
Normal temperature:85°C
Normal humidity:85°C
Normal temperature:13°C
Normal humidity:13°C
ALERT!! Detected temperature: 92°C
ALERT!! Detected humidity: 9°C
ALERT!! Detected temperature: 96°C
ALERT!! Detected humidity: 4°C
Normal temperature:18°C
Normal humidity:18°C
ALERT!! Detected temperature: 91°C
ALERT!! Detected humidity: 45°C
Normal temperature:27°C
Normal humidity:27°C
Normal temperature:41°C
Normal humidity:41°C
Normal temperature:81°C
Normal humidity:81°C
```