

Assignment -2
Python Programming

Assignment Date	3 November 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 as rd
```

```
import time as t while
```

```
1:
```

```
    temperature=rd.randint(0,100)    moisture=rd.randint(0,100)    if
    temperature>=60:                    print("warning!!Detected
    Temperature:"+str(temperature)+"*c") if moisture>=60:
        print("warning!!Detected Moisture:"+str(moisture)+"%") if
        temperature>=60 & moisture>=60:
            print("warning!!Detected both Temperature and Moisture:"+str(temperature)+"*c
            and"+str(moisture)+"%")
            elif temperature>=60 & moisture>=60:
                print("Both temperature and moisture are in normal condition")
            elif moisture<=60: print("normal
            moisture condition")
        elif temperature<=60:
            print("good temperature")
            t.sleep(1)
```

```
Python - C:\Users\NIST\AppData\Local\Python\Python310\
File Edit Shell Debug Options Window Help
Python version: 3.10
Python time: 0.0
00:00 11
temperature=cil.read(0,100)
moisture=cil.read(0,100)
if temperature<40:
    print("Warning! Detected Temperature=" +str(temperature)+"°C")
    moisture=60
elif moisture<40:
    print("Warning! Detected Moisture=" +str(moisture)+"%")
    temperature=60
else:
    print("Warning! Detected both Temperature and Moisture=" +str(temperature)+"°C and "+str(moisture)+"%")
    temperature=60 & moisture=60
else:
    print("Both temperature and moisture are in normal condition")
    moisture=60
    print("normal moisture condition")
else:
    temperature=60
    print("good temperature")
    time.sleep(1)
```

Output

```
Python - C:\Users\NIST\AppData\Local\Python\Python310\
File Edit Shell Debug Options Window Help
Python version: 3.10
Python time: 0.0
00:00 11
warning! Detected Temperature:38°C
warning! Detected Moisture:58%
warning! Detected both Temperature and Moisture:38°C and 58%
good temperature
warning! Detected Temperature:34°C
warning! Detected Moisture:78%
good temperature
warning! Detected Temperature:39°C
warning! Detected Moisture:58%
good temperature
warning! Detected Temperature:61°C
normal moisture condition
warning! Detected Temperature:62°C
normal moisture condition
warning! Detected Temperature:49°C
normal moisture condition
warning! Detected Temperature:100°C
warning! Detected Moisture:15%
good temperature
warning! Detected Temperature:60°C
warning! Detected Moisture:53%
warning! Detected Temperature:77°C
normal moisture condition
good temperature
warning! Detected Temperature:83°C
normal moisture condition
good temperature
warning! Detected Temperature:88°C
normal moisture condition
good temperature
warning! Detected Temperature:141°C
warning! Detected Moisture:52%
warning! Detected Temperature:178°C
normal moisture condition
warning! Detected Temperature:81°C
warning! Detected Moisture:94%
warning! Detected Temperature:164°C
normal moisture condition
good temperature
good temperature
warning! Detected Temperature:70°C
normal moisture condition
warning! Detected Temperature:61°C
normal moisture condition
good temperature
good temperature
```