

Assignment -2
Python Programming

Assignment Date	24September 2022
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Maximum Marks	2 Mark

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 3.10.0 - C:\Users\9876\python\temp.py (3,10)
File Edit Shell Debug Options Window Help
import random as rd
import time as t
while 1:
    temperature=rd.randint(0,100)
    moisture=rd.randint(0,100)
    if temperature>40:
        print("warning!!Detected Temperature:"*4+str(temperature)+"°c")
    if moisture>60:
        print("warning!!Detected Moisture:"*4+str(moisture)+"%")
    if temperature>40 & moisture>60:
        print("warning!!Detected both Temperature and Moisture:"*4+str(temperature)+"°c and"+str(moisture)+"%")
    elif temperature>40 & moisture<60:
        print("High temperature and moisture are in normal condition")
    elif moisture>60:
        print("normal moisture condition")
    elif temperature<40:
        print("good temperature")
    t.sleep(1)
```

Output

```
Python 3.10.0 - C:\Users\9876\python\temp.py (3,10)
File Edit Shell Debug Options Window Help
warning!!Detected Temperature:64°c
warning!!Detected Moisture:82%
warning!!Detected both Temperature and Moisture:64°c and82%
good temperature
warning!!Detected Temperature:64°c
warning!!Detected Moisture:72%
good temperature
warning!!Detected Temperature:60°c
warning!!Detected Moisture:88%
good temperature
warning!!Detected Temperature:81°c
normal moisture condition
warning!!Detected Temperature:82°c
normal moisture condition
warning!!Detected Temperature:81°c
normal moisture condition
warning!!Detected Temperature:100°c
warning!!Detected Moisture:10%
good temperature
warning!!Detected Temperature:60°c
warning!!Detected Moisture:92%
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:76°c
warning!!Detected Moisture:100%
warning!!Detected Temperature:70°c
normal moisture condition
warning!!Detected Temperature:81°c
warning!!Detected Moisture:98%
warning!!Detected Temperature:64°c
normal moisture condition
good temperature
warning!!Detected Temperature:70°c
normal moisture condition
warning!!Detected Temperature:61°c
normal moisture condition
good temperature
good temperature
```