

Assignment -1
Python Programming

Assignment Date	28 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, assume u get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature.

Program:

```
import random

temp=random.randint(0,100)
humid=random.randint(1,100)

if (20<temp<40):
    print("Temperature is",temp)
    print("The Temperature is normal")
elif temp<20:
    print("Temperature is",temp)
    print("The Temperature is low")
else:
    print("Temperature is",temp)
    print("warning!! The Temperature is high")

if (10<temp<20):
    print("Humidity is", humid)
    print("The humidity is normal")
elif temp<10:
    print("Humidity is", humid)
    print("The humidity is low")
else:
    print("Humidity is", humid)
    print("warning!! The humidity is high")
```

Output:

```
File Edit Shell Debug Options Window Help
import random
temp=random.randint(0,100)
humid=random.randint(1,100)
if (20<temp<40):
    print("Temperature is",temp)
    print("The Temperature is normal")
elif temp<20:
    print("Temperature is",temp)
    print("The Temperature is low")
else:
    print("Temperature is",temp)
    print("warning!! The Temperature is high")
if (10<temp<20):
    print("Humidity is",humid)
    print("The humidity is normal")
elif temp<10:
    print("Humidity is",humid)
    print("The humidity is low")
else:
    print("Humidity is",humid)
    print("warning!! The humidity is high")

Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/dell/AppData/Local/Programs/Python/Python310/assig.py ====
Temperature is 95
warning!! The Temperature is high
Humidity is 24
warning!! The humidity is high
>>>
```