

Assignment -2
Python Programming

Assignment Date	22 September 2022
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Student Roll Number	111719104048
Maximum Marks	2 Marks

Question-1:

Build a Python code, Assume you get a temperature and humidity values (generated with a random function to an variable) and a condition to continuously detect alarm in case of high temperature.

Solution:

```
import random #random function

temp=random.randint(1,100)
humty=random.randint(1,100)
print(temp)#temperature value
print(humty)#humidity value

if ((temp<30)&(humty<50)):
    print("temperature is normal :")
    print("humidity is normal:")
    print("alaram off")
elif((temp<30)&(humty>50)):
    print("temperature is low")
    print("humidity is high")
    print("alaram off")
elif((temp>30) & (humty<50)):
    print("temperature is high:")
    print("humidity is normal")
    print("alaram on")
elif((temp>30) & (humty<60)):
    print("temperature is high")
    print("humidity is normal:")
    print("alaram on")
elif((temp>30) & (humty>60)):
    print("temperature is high")
    print("humidity is high")
    print("alaram on")
```

Divya.py - D:/Divya.py (3.9.13)
File Edit Format Run Options Window Help

```
import random #random function
temp=random.randint(1,100)
humty=random.randint(1,100)
print(temp)#temperature value
print(humty)#hmidity value

if ((temp<30) & (humty<50)):
    print("temperature is normal :")
    print("humidity is normal:")
    print("alarm off")
elif((temp<30) & (humty>50)):
    print("temperature is low")
    print("humidity is high")
    print("alarm off")
elif((temp>30) & (humty<50)):
    print("temperature is high:")
    print("humidity is normal")
    print("alarm on")
elif((temp>30) & (humty>60)):
    print("temperature is high")
    print("humidity is normal:")
    print("alarm on")
elif((temp>30) & (humty>60)):
    print("temperature is high")
    print("humidity is high")
    print("alarm on")
```

IDLE Shell 3.9.13
File Edit Shell Debug Options Window Help

```
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/Divya.py =====
9
69
temperature is low
humidity is high
alarm off
>>> |
```

Ln: 10 Col: 4Ln: 1 Col: 1

32°C
Haze

9:44 PM
24-Sep-22