## **Assignment -2**

# **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 (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature

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### **Solution:**

# **Program**

```
import random
                                   #for generating random values
temp=random.uniform(10,100) #assign random temperature value
humid=random.randrange(20,100,1)
#assign random
                    humidity value
temp=round(temp,2)
                                #rounding to 2 decimal
                                                           points
print("Temperature:",temp,"`C")
11 11 11
           TEMPERATURE
                           11 11 11
if (temp<=20):</pre>
                                      #temperature decision
    print("Alarm")
    print("very low temperature")
elif ((temp>20) and(temp<38)):</pre>
    print("Moderate temperature")
```

### Code:

```
1.py - E:\7 sem\1.py (3.7.0)
File Edit Format Run Options Window Help
import random
                                     #for generating random values
                                     #assign random temperature value
temp=random.uniform(10,100)
humid=random.randrange(20,100,1)
                                     #assign random humidity value
temp=round(temp,2)
                                     #rounding to 2 decimal points
print("Temperature:",temp,"`C")
0.00
            TEMPERATURE
                            0.00
if (temp<=20):</pre>
                                       #temperature decision
    print("Alarm")
    print("very low temperature")
elif ((temp>20) and (temp<38)):</pre>
    print("Moderate temperature")
else:
    print("Alarm")
    print("Very high temperature")
print("Humidity:",humid,"%")
....
                       0.00
        HUMIDITY
if (humid<=30):</pre>
                                       #humidity decision
    print("Alarm")
    print("Very Low humidity")
elif((humid>30)and(humid<50)):
    print("Moderate humidity")
else:
    print("Alarm")
    print("Very High humidity")
```

### **Output:**

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
   Temperature: 35.03 C
Moderate temperature
Humidity: 33 %
Moderate humidity
>>>
Temperature: 63.55 `C
Alarm
Very high temperature
Humidity: 48 %
Moderate humidity
>>>
    Temperature: 24.75 °C
Moderate temperature
Humidity: 64 %
Alarm
Very High humidity
>>>
              Temperature: 13.69 `C
Alarm
very low temperature
Humidity: 48 %
Moderate humidity
>>>
  Temperature: 51.34 `C
Alarm
Very high temperature
Humidity: 28 %
Alarm
Very Low humidity
>>>
```