ASSIGNMENT 2
PYTHON PROGRAMMING

Assignment Date	30 September 2022
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Student Roll Number	718019L121
Maximum Marks	2 marks

Question

   Build a python code, assume you 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:

```python
#importing the random to generate random temperature and humidity values
import random

def temperature():
#setting temperature range btn 10 and 40
    temp = random.randrange(10,40)
    return temp
T = temperature()
print("Temperature measured",T)

def humidity():
#setting humidity range btn 25 and 60
    hmdty = random.randrange(25,60)
    return hmdty
H =  humidity()
print("Humidity measured",H)

#condition to continuously detect alarm
if T>30:
    print("Hot")
elif T>=20 and T<=30:
    print("Warm")
elif T<20:
    print("Cold")
```

```python
1
2  #importing the random to generate random temperature and humidity values
3  import random
4
5  def temperature():
6  #setting temperature range btn 10 and 40
7      temp = random.randrange(10,40)
8      return temp
9  T = temperature()
10 print("Temperature measured",T)
11
12 def humidity():
13 #setting humidity range btn 25 and 60
14      hmdty = random.randrange(25,60)
15      return hmdty
16 H = humidity()
17 print("Humidity measured",H)
18
19 #condition to continuously detect alarm
20 if T>30:
21      print("Hot")
22 elif T>=20 and T<=30:
23      print("Warm")
24 elif T<20:
25      print("Cold")
```

Output :

```
Temperature measured 22
Humidity measured 36
Warm


...Program finished with exit code 0
Press ENTER to exit console.
```