Assignment - 2
Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question:

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:

```python
import numpy
import random
while(True):
  temp=random.uniform(15,55);
  humidity=random.uniform(10,20)
  '''Threshold = 40'''
  print('Temperature(C):',round(temp,2),'Humidity(gm/m^3):',round(humidity,2))
  print('High temperature detected' if temp>40 else 'Its normal')
  print('\n')
```

Output:

```
Temperature(C): 39.85 Humidity(gm/m^3): 10.52
Its normal


Temperature(C): 50.34 Humidity(gm/m^3): 11.42
High temperature detected


Temperature(C): 41.84 Humidity(gm/m^3): 16.26
High temperature detected


Temperature(C): 29.17 Humidity(gm/m^3): 15.65
Its normal


Temperature(C): 17.05 Humidity(gm/m^3): 12.4
Its normal


Temperature(C): 28.78 Humidity(gm/m^3): 14.96
Its normal
```