Assignment -2

Python Programming

Assignment Date	26 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.

Solution:

```
import sys
import math
print('Celsius
                Fahrenheit Humidity')
dp=0
c=0
ind=""
def frost_point(c,dpc):
  dpk=273.15 + dpc
  tak=273.15+c
  fpk=dpk - tak + 2671.02 / ((2954.61 / tak)+ 2.193665 * math.log(tak)-13.3448)
  return fpk - 273.15
def dew_point(c,rh):
  A= 17.27
  B= 273.7
  alpha = ((A*c)/(B+c)) + math.log(rh/100.0)
  dp= (B*alpha)/(A-alpha)
```

9/25/22, 10:10 PM humidity - Jupyter Notebook

```
In [4]: import sys
import math
                import math
print('Celsius Fahrenheit Humidity')
dp=0

ing=-

ing=-

def frost_point(c,dpc):
    dpk=273.15 * dpc
    tak=273.15 * dpc
    fpk+cpk * tak * 2671.02 / ((2954.61 / tak) * 2.193665 * math.log(tak)-13.3448)
    return fpk * 273.15
                  def dew_point(c,rh):
A= 17.27
B= 273.7
                           \begin{array}{ll} \text{alpha= } ((A*c)/(B+c)) \ + \ \text{math.log(rh/180.0)} \\ \text{dp= } (B*alpha)/(A-alpha) \end{array} 
                  pre (a-dipms)/(a-dipms)
for c in range(30,73,13);
f=inrt((c*1.8) + 32)
hums 108*((cath.e**(17.625 * dp)/(243.04*dp))) / (math.e**((17.625 * f)/(243.04*f))))
hums 108*((cath.e**(17.625 * dp)/(243.04*dp))) / (math.e**((17.625 * f)/(243.04*f))))
ind='!!! Over heated !!!'
print('''' kimring : ',ind)
print(''''' kimring : ',ind)
else:
                         else: print(')
print('')
print('''
print(c,' ',f,' %.2f' %humidity)
                   Celsius Fahrenheit Humidity
                                                86
                                                                                99.86
                                                   87
                                                89
                                                                               88.78
                  32
                                             91
                                                                                82.18
In [ ]:
```