Assignment 2
Python programming - 1

Date	30 September 2022
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Maximum Marks	2 Marks

Question – 1

Build a python code, assume you get temperature and humidity values (generated with random function) and write a condition to continuously detect alarm in case of high temperature

Solution

```python
#The code is written by considering the DHT 11 - Temperature and Humidity Sensor
#The Sensor's temperature range = -20 to 60C and humidity range = 5 to 95%
#importing the random to generate random temperature and humidity values
import random
def humidity():
    humid = random.randint(5,95)
    return humid
def temperature():
    temp = random.randint(-20,60)
    return temp
T = temperature()
H = humidity()
print("The Temperature measured is: ",T)
print("the Humidity measured is: ",H)
if T>32:
    print("That's a lot of heat out there!!")
    print("Better Stay indoors!!!")
elif T>=20 and T<=28:
    print("Everything's fine...")
elif T<20:
    print("That's too chill out there...")
```

```
1    #The code is written by considering the DHT 11 - Temperature and Humidity Sensor
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3    #importing the random to generate random temperature and humidity values
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5    def humidity():
6        humid = random.randint(5,95)
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9        temp = random.randint(-20,60)
10       return temp
11   T = temperature()
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13   print("The Temperature measured is: ",T)
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15   if T>32:
16       print("That's a lot of heat out there!!")
17       print("Better Stay indoors!!!")
18   elif T>=20 and T<=28:
19       print("Everything's fine...")
20   elif T<20:
21       print("That's too chill out there...")
22
23
```

Console 2/A

```
the Humidity measured is:  89
That's too chill out there...

In [48]: runfile('D:/ASSESSMENTS - PNT2022TMID12777/TEAM LEAD (PRAVEEN S)/ASSIGNMENT 2/
temp_comparison.py', wdir='D:/ASSESSMENTS - PNT2022TMID12777/TEAM LEAD (PRAVEEN S)/ASSIGNMENT 2')
The Temperature measured is:  36
the Humidity measured is:  24
That's a lot of heat out there!!
Better Stay indoors!!!

In [49]: runfile('D:/ASSESSMENTS - PNT2022TMID12777/TEAM LEAD (PRAVEEN S)/ASSIGNMENT 2/
temp_comparison.py', wdir='D:/ASSESSMENTS - PNT2022TMID12777/TEAM LEAD (PRAVEEN S)/ASSIGNMENT 2')
The Temperature measured is:  3
the Humidity measured is:  82
That's too chill out there...

In [50]: runfile('D:/ASSESSMENTS - PNT2022TMID12777/TEAM LEAD (PRAVEEN S)/ASSIGNMENT 2/
temp_comparison.py', wdir='D:/ASSESSMENTS - PNT2022TMID12777/TEAM LEAD (PRAVEEN S)/ASSIGNMENT 2')
The Temperature measured is:  27
the Humidity measured is:  25
Everything's fine...
```