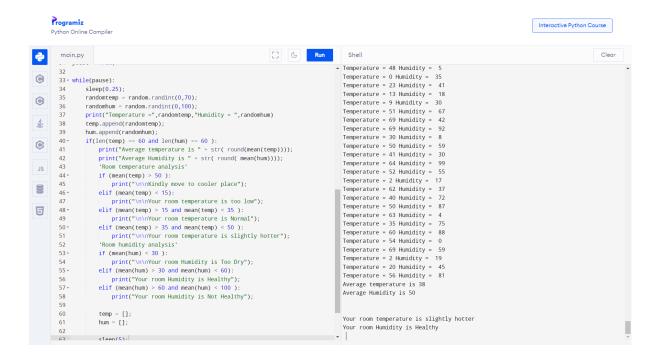
Assignment -2 Temperature and humidity

Date	29 September 2022
Student Name	Abdul Rahman S
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Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Output:



Code And ScreenShot

Python Code:

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Assignment 2:

Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an

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alarm in case of high temperature continuously.
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#import the necessary package!
import requests
import random
from time import *
from statistics import mean
'Storing Temperature and Humidity in array'
temp = [];
hum = [];
pause = True;
while(pause):
 sleep(0.25);
 randomtemp = random.randint(0,70);
```

```
randomhum = random.randint(0,100);
print("Temperature =",randomtemp,"Humidity = ",randomhum)
temp.append(randomtemp);
hum.append(randomhum);
if(len(temp) == 60 \text{ and } len(hum) == 60):
  print("Average temperature is " + str( round(mean(temp))));
  print("Average Humidity is " + str( round( mean(hum))));
  'Room temperature analysis'
  if (mean(temp) > 50):
    print("\n\nKindly move to cooler place");
  elif (mean(temp) < 15):
    print("\n\nYour room temperature is too low");
  elif (mean(temp) > 15 and mean(temp) < 35):
    print("\n\nYour room temperature is Normal");
  elif (mean(temp) > 35 and mean(temp) < 50):
    print("\n\nYour room temperature is slightly hotter");
  'Room humidity analysis'
  if (mean(hum) < 30):
    print("\n\nYour room Humidity is Too Dry");
  elif (mean(hum) > 30 and mean(hum) < 60):
    print("Your room Humidity is Healthy");
  elif (mean(hum) > 60 and mean(hum) < 100 ):
    print("Your room Humidity is Not Healthy");
  temp = [];
  hum = [];
  sleep(5);
```

Output for Code:

- Temperature = 37 Humidity = 84
- Temperature = 62 Humidity = 41
- Temperature = 37 Humidity = 97
- Temperature = 7 Humidity = 46
- Temperature = 52 Humidity = 84
- Temperature = 2 Humidity = 58
- Temperature = 61 Humidity = 75
- Temperature = 29 Humidity = 25
- Temperature = 15 Humidity = 82
- Temperature = 40 Humidity = 94
- Temperature = 63 Humidity = 28
- Temperature = 18 Humidity = 76
- Temperature = 65 Humidity = 49
- Temperature = 61 Humidity = 7
- Temperature = 57 Humidity = 70
- Temperature = 28 Humidity = 1
- Temperature = 20 Humidity = 56
- Temperature = 28 Humidity = 59
- Temperature = 70 Humidity = 79
- Temperature = 68 Humidity = 67
- Temperature = 44 Humidity = 67
- Temperature = 10 Humidity = 17
- Temperature = 14 Humidity = 92
- Temperature = 44 Humidity = 67
- Temperature = 11 Humidity = 23
- Temperature = 39 Humidity = 37
- Temperature = 22 Humidity = 44

- Temperature = 21 Humidity = 70
- Temperature = 46 Humidity = 50
- Temperature = 62 Humidity = 72
- Temperature = 41 Humidity = 97
- Temperature = 52 Humidity = 89
- Temperature = 53 Humidity = 6
- Temperature = 37 Humidity = 82
- Temperature = 24 Humidity = 55
- Temperature = 49 Humidity = 54
- Temperature = 10 Humidity = 83
- Temperature = 10 Humidity = 46
- Temperature = 25 Humidity = 36
- Temperature = 56 Humidity = 100
- Temperature = 39 Humidity = 78
- Temperature = 59 Humidity = 79
- Temperature = 43 Humidity = 69
- Temperature = 24 Humidity = 64
- Temperature = 21 Humidity = 86
- Temperature = 25 Humidity = 36
- Temperature = 15 Humidity = 31
- Temperature = 59 Humidity = 45
- Temperature = 19 Humidity = 13
- Temperature = 17 Humidity = 22
- Temperature = 37 Humidity = 39
- Temperature = 8 Humidity = 37
- Temperature = 40 Humidity = 66
- Temperature = 23 Humidity = 40
- Temperature = 14 Humidity = 3
- Temperature = 39 Humidity = 51
- Temperature = 35 Humidity = 77

Temperature = 53 Humidity = 63

Temperature = 70 Humidity = 80

Temperature = 43 Humidity = 38

Temperature = 38 Humidity = 31

Average temperature is 36

Average Humidity is 55

Your room temperature is slightly hotter

Your room Humidity is Healthy