

Assignment -2
Python Programming

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python program where you get temperature and humidity by using random function and continuously monitor temperature and humidity and alert the user if it is too hot or too cold

Solution :

```
import random
from time import sleep

Temp=0.0
Humid=0.0

while True:

    Temp = random.random()*100
    # Multipling by 100 because random function generate a
    random float value between 0 to 1
    Humid = random.random()*100

    if((Temp > 40) and (Humid < 30) ):
        print("Temperatur is very hight")
        print("Temperature : {:.2f} ".format(Temp))
        print("Humidity : {:.2f} ".format(Humid))

    elif((Temp < 30) and (Humid >50) ):
        print("Temperature is Low")
        print("Temperature : {:.2f} ".format(Temp))
        print("Humidity : {:.2f} ".format(Humid))

    else:
        print("reading...")
        sleep(1)
        #sleep function delay the execution of the next
        instruction the delay time can be set by the users
```

Output :

```
Temperatur is very hight
Temperature : 58.63
Humidity : 17.11
reading....
reading....
Temperature is Low
Temperature : 26.88
Humidity : 96.24
reading....
Temperatur is very hight
Temperature : 88.90
Humidity : 23.61
reading....
reading....
reading....
reading....
Temperatur is very hight
Temperature : 52.96
Humidity : 26.79
reading....
reading....
reading....
reading....
Temperature is Low
Temperature : 0.45
Humidity : 89.91
```