Assignment -2

Python Programming

Assignment Date	21 September 2022
Student Name	Ajin R
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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.

Program:

```
import random
```

from time import sleep

```
temp = 0.0
```

hum = 0.0

while(True):

```
#here the temperature is considered in celsius
```

```
temp = random.random()*100
```

 $\hbox{\#humidity is considerd in percentage , the amount of water contained in per cubic meter of air}$

hum = random.random()*100

```
elif(temp < 20 and hum > 50):
   print()
   print("ALERT * Temperature is low")
   print("Temperature : {:.2f} ".format(temp))
   print("Humidity : {:.2f} ".format(hum))
   print()
 elif((temp >40 and temp >20) and (hum <50 and hum > 30)):
   print()
   print("Temperature : {:.2f} ".format(temp))
   print("Humidity : {:.2f} ".format(hum))
   print()
 else:
   print("Sensing......")
 sleep(1)
Image:
ALERT 💊 Temperature is high
Temperature : 84.93
Humidity: 6.45
Normal 🌑
Temperature : 81.46
Humidity: 36.04
ALERT 🔅 Temperature is low
Temperature : 9.26
Humidity: 66.78
Sensing.....
ALERT 💊 Temperature is high
Temperature : 46.57
Humidity: 28.75
ALERT 💊 Temperature is high
Temperature : 68.71
Humidity: 29.40
```