ASSIGNMENT 2

ASSIGNMENT DATE	22-SEP-2022
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MAXIMUM MARK	2MARK

Question:

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

Solution:

CODE:

#Program for finding humidity and temperature

#Let us assuming the range of temperature from 23 to 30 degress

#if temperature is above 30 degrees

import random import math

import winsound

#random choosing of temperature temperature

= random.randint(22,40)

#here dew point must be less than temperature so let is subtract some value with

the range of 3 to 8 rand=random.randint(3,8) print(temperature)

due_point=temperature-rand

relativehumidity=100*(2.718281828*(17.625*due_point/(243.04+due_point)))/(2.718281828*(17.625*temperature/(243.04+temperature))) print(relativehumidity)

#buzzer alerting if temperature is exceed 33 then buzzer allert

if(temperature>33):

   winsound.Beep(4300,5000)
   print("!!!!!(((((buzzer)))))!!!!!")

else:

print("...........buzzer.........")

OUTPUT:


```python
#Program for finding humidity and temperature
#Let us assuming the range of temperature from 23 to 30 degress
#if temperature is above 30 degrees
import random
import math
import winsound
#random choosing of temperature
temperature = random.randint(22,40)
#here dew point must be less than temperature so let is subtract some value with the range of 3 to 8
rand=random.randint(3,8)
print(temperature)
due_point=temperature-rand
relativehumidity=100*(2.718281828*(17.625*due_point/(243.04+due_point)))/(2.718281828*(17.625*temperature/(243.04+temperature)))
print(relativehumidity)
#buzzer alerting if temperature is exceed 33 then buzzer allert
if(temperature>33):
    winsound.Beep(4300,5000)
    print("!!!!!!(((((buzzer)))))!!!!!")
else:
    print("..........buzzer........")
```



```
Python 3.9.8 (tags/v3.9.8:bb3fdcf, Nov  5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\SREEKANTH\AppData\Local\Programs\Python\Python39\Temperature Detection.py
35
84.68460520511691

= RESTART: C:\Users\SREEKANTH\AppData\Local\Programs\Python\Python39\Temperature Detection.py
40
84.59208810317347

= RESTART: C:\Users\SREEKANTH\AppData\Local\Programs\Python\Python39\Temperature Detection.py
39
84.13955639086528
!!!!!!(((((buzzer)))))!!!!!
>>>
```