PROGRAM FOR TEMPERATURE DETECTION:

```
# program for finding humidity and temperature
#let us assuming the range of temperature from 23 to 30 degrees
#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 us subtact 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 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/pnmur/AppData/Local/Programs/Python/Python39/Temperature detection.py
37
88.05873936763989
!!!!!!((((((buzzer))))))!!!!!!
>>>
= RESTART: C:/Users/pnmur/AppData/Local/Programs/Python/Python39/Temperature detection.py
39
86.4545829478448
!!!!!!((((((buzzer))))))!!!!!!
>>>
= RESTART: C:/Users/pnmur/AppData/Local/Programs/Python/Python39/Temperature detection.py
33
80.8378161634183
...........buzzer.............
>>>
= RESTART: C:/Users/pnmur/AppData/Local/Programs/Python/Python39/Temperature detection.py
35
79.42823285439194
!!!!!!((((((buzzer))))))!!!!!!
>>>
= RESTART: C:/Users/pnmur/AppData/Local/Programs/Python/Python39/Temperature detection.py
40
86.8408894022524
!!!!!!((((((buzzer))))))!!!!!!
>>>
= RESTART: C:/Users/pnmur/AppData/Local/Programs/Python/Python39/Temperature detection.py
27
89.88749084614872
...........buzzer.............
>>>
```

VIDEO LINK:

https://drive.google.com/file/d/1IeE8u95HIKimjSNzF3dor3iUGjp-zVD1/view?usp=sharing

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