

PROGRAM FOR TEMPERATURE DETECTION:

```
kiran.py - C:/Users/pnmur/AppData/Local/Programs/Python/Python39/kiran.py (3.9.8)
File Edit Format Run Options Window Help
# 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 subtract some value with the range of 3 to 8
rand=random.randint(3,8)
print(temperature)
dew_point=temperature-rand
relativehumidity=100*(17.625*dew_point/(243.04+dew_point)))/(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.....")

Ln: 18 Col: 43
29°C Cloudy
```

OUTPUT:

```
IDLE Shell 3.9.8
File Edit Shell Debug Options Window Help
Python 3.9.8 (tags/v3.9.8:bb3fdef, 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/kiran.py ====
35
79.42823285439194
!!!!!!((((((buzzer))))))!!!!!!
>>>
==== RESTART: C:/Users/pnmur/AppData/Local/Programs/Python/Python39/kiran.py ====
32
80.16527383972542
.....buzzer.....
>>>
==== RESTART: C:/Users/pnmur/AppData/Local/Programs/Python/Python39/kiran.py ====
39
81.80763429632208
!!!!!!((((((buzzer))))))!!!!!!
>>> |

Ln: 18 Col: 4
29°C Cloudy
```

VIDEO LINK:

https://drive.google.com/file/d/1_U1i5DtfyilniFPQAHBcmaV9bESsPdb/view?usp=sharing

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