

## TEMPERATURE DETECTOR:

### PROGRAM OF TEMPERATURE DETECTOR:

```
temperature detector(sumadhar).py - C:/Users/sumad/Documents/temperature detector(sumadhar).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*(2.718281828*(17.625*dew_point/(243.04+dew_point)))/(2.718281828*(17.625*temperature/(243.04+temperature)))
print(relativehumidity)
# buzzer alerting if temperature is exceed 33 then buzzer alert
if(temperature>33):
    winsound.Beep(4300,5000)
    print("!!!!!!((((((buzzer))))))!!!!!!")
else:
    print(".....buzzer.....")
|
```

### 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/sumad/Documents/temperature detector(sumadhar).py =====
38
88.41510383697252
!!!!!!((((((buzzer))))))!!!!!!
>>>
===== RESTART: C:/Users/sumad/Documents/temperature detector(sumadhar).py =====
28
90.28503208476347
.....buzzer.....
>>>
===== RESTART: C:/Users/sumad/Documents/temperature detector(sumadhar).py =====
39
86.4545829478448
!!!!!!((((((buzzer))))))!!!!!!
>>>
===== RESTART: C:/Users/sumad/Documents/temperature detector(sumadhar).py =====
22
83.07190817150976
.....buzzer.....
>>>
===== RESTART: C:/Users/sumad/Documents/temperature detector(sumadhar).py =====
29
90.65489556738132
.....buzzer.....
>>>
```

### VIDEO LINK:

<https://drive.google.com/file/d/1FcPd4ijuUoXCeOZRfE-8JFqL-rZ4dRno/view?usp=sharing>

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