

**BUILD A PYTHON CODE , ASSUME YOU GET A 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

import winsound

temperature= random.randrange(0,100)

print(temperature)

if(temperature>60):

    print("HIGH TEMPERATURE")

    #print('\a')

    winsound.Beep(4460, 10000)

else:

    print("NORMAL TEMPERATURE")


difference=random.randint(3,8)

dewpoint=temperature-difference

print("dewpoint=",end=" ")

print(dewpoint)


#Relative Humidity

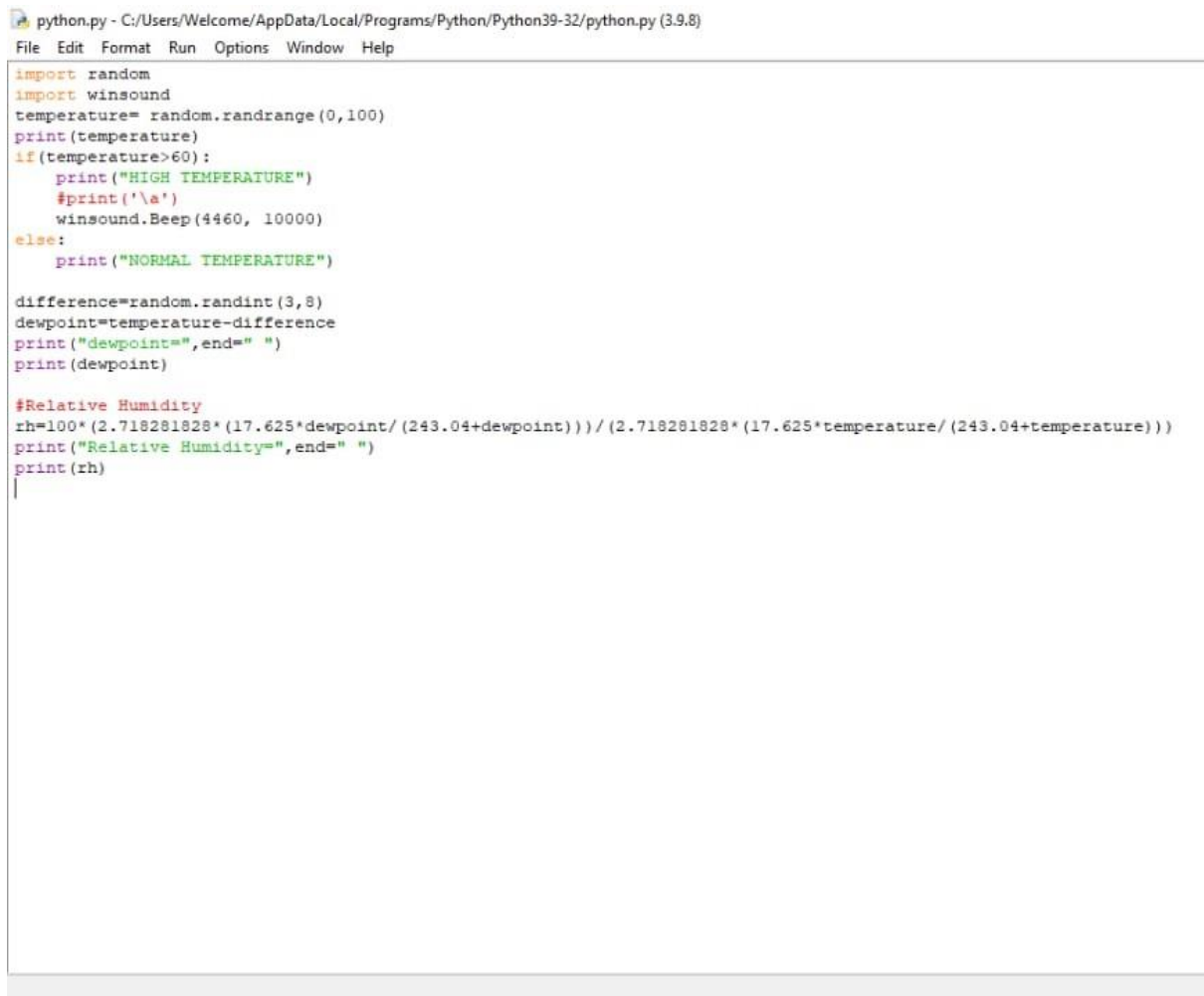
rh=100*(2.718281828*(17.625*dewpoint/(243.04+dewpoint)))/(2.718281828

*(17.625*temperature/(243.04+temperature)))

print("Relative Humidity=",end=" ")

print(rh)
```

## OUTPUT



```
python.py - C:/Users/Welcome/AppData/Local/Programs/Python/Python39-32/python.py (3.9.8)
File Edit Format Run Options Window Help

import random
import winsound
temperature= random.randrange(0,100)
print(temperature)
if(temperature>60):
    print("HIGH TEMPERATURE")
    #print('\a')
    winsound.Beep(4460, 10000)
else:
    print("NORMAL TEMPERATURE")

difference=random.randint(3,8)
dewpoint=temperature-difference
print("dewpoint=",end=" ")
print(dewpoint)

#Relative Humidity
rh=100*(2.718281828*(17.625*dewpoint/(243.04+dewpoint)))/(2.718281828*(17.625*temperature/(243.04+temperature)))
print("Relative Humidity=",end=" ")
print(rh)
|
```

Vedio link:

[https://drive.google.com/file/d/1zeKJFT0QxJqeyL1WVDVsLgOnR\\_9lpZI-/view?usp=sharing](https://drive.google.com/file/d/1zeKJFT0QxJqeyL1WVDVsLgOnR_9lpZI-/view?usp=sharing)