

**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)
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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)
|
```

**Video link:**

**<https://drive.google.com/file/d/1k07IPyemwXy4AWVelceBBMY6LKm-8I59/view?usp=sharing>**