

Python code

Temperature detection

TRACK-IOT

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TOPIC-BUILD A PYTHON PROGRAM TO GENERATE RANDOM NUMBER FOR TEMPERATURE AND TURN ON THE BUZZER IF IT CROSSES A THRESHOLD.

PROGRAM:

```
import random

for x in range(1,10):

    k=(random.uniform(0,100))

    y=(random.uniform(0,100))

    print("Temperature\t",(round(k,2)),"c")

    print("Humidity\t",(round(y,2)),"g/m^3")

    if(k>=30.0):

        print("Buzzer on\n")

    else:

        print("Buzzer off\n")
```

Python code

Temperature detection

OUTPUT:

```
Temperature      18.16 c
Humidity         42.11 g/m^3
Buzzer off
```

```
Temperature      88.52 c
Humidity         88.68 g/m^3
Buzzer on
```

```
Temperature      79.22 c
Humidity         5.48 g/m^3
Buzzer on
```

```
Temperature      8.3 c
Humidity         34.42 g/m^3
Buzzer off
```

```
Temperature      79.86 c
Humidity         1.03 g/m^3
Buzzer on
```

```
Temperature      26.59 c
Humidity         58.92 g/m^3
Buzzer off
```

```
Temperature      7.19 c
Humidity         13.99 g/m^3
Buzzer off
```

```
Temperature      11.46 c
Humidity         8.07 g/m^3
Buzzer off
```

```
Temperature      56.41 c
Humidity         63.78 g/m^3
Buzzer on
```

```
... |
```