Python code
Temperature detection

TRACK-IOT

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TOPIC-BULID 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")
```

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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

...
```