

Karpagam College of Engineering

(Electronics and Communication Engineering)

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Assignment 2:

Temperature and Humidity sensing alarm automation using python

Code:

```
import random
while(1):
    temperature=random.randint(9,30) #random temperature between 9 and 30
    humidity=random.randint(15,55)   #random humidity between 15 and 55
    if (temperature>10 and humidity>50):
        print("high temperature and humidity -->",temperature,humidity,"%","Alarm
ON")
        break
    elif(temperature<10 and humidity<50):
        print("Normal temperature and humidity -->",temperature,humidity,"%","Alarm
OFF")
        break
```

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Run

Debug

Stop

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Language Python 3

main.py

```
1 import random
2 while(1):
3     temperature = random.randint(9,30) #random temperature between 9 and 30
4     humidity = random.randint(15,55) #random humidity between 15 and 55
5     if (temperature>10 and humidity>50):
6         print("high temperature and humidity -->",temperature,humidity,"%","Alarm ON")
7         break
8     elif(temperature<10 and humidity<50):
9         print("Normal temperature and humidity -->",temperature,humidity,"%","Alarm OFF")
10        break
11
12
13
```

Input

high temperature and humidity --> 17 51 % Alarm ON

...Program finished with exit code 0
Press ENTER to exit console.