Karpagam College of Engineering

(Electronics and Communication Engineering)

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Assignment 2:

Temperature and Humidity sensing alarm automation using python

Code:

```python
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
```

▶ Run   ⊙ Debug   ■ Stop   ⟳ Share   ⚑ Save   {} Beautify   ⬇

Language Python 3 ⌄   ℹ ⚙

main.py

```python
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.
```