

IoT ASSIGNMENT

TOPIC : Assignment on temperature and humidity sensing and alarm automation using python

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CODE :

```
import random #importing random values
import time #importing time to introduce delay between instantaneous
random values
while (True): #looping the random values
    time.sleep(2)
    a=random.randint(10,70) #getting random values as a for
temperature
    b=random.randint(10,99) #getting random values as a for humidity

    if(a>35 and b>60):
        print("high temperature and humidity of:",a,b,"%","alarm is on")
    elif(a<35 and b<60):
        print("Normal temperature and humidity of:",a,b,"%","alarm is
off")
    continue
```

OUTPUT :

FileEditSelectionViewGoRunTerminalHelp

ibm assignment 2.py - IBM BASIC - Visual Studio Code

EXPLORER

IBM BASIC

basiccoding.py

httprequest.py

ibm assignment 2.py

randomvalue.py

ibm assignment 2.py

1import random#importing random values

2import time#importing time to introduce delay between instantaneous random values

3while (True):#looping the random values

4time.sleep(2)

5a=random.randint(10,70)#getting random values as a for temperature

6b=random.randint(10,99)#getting random values as a for humidity

7

8if(a>35 and b>60):

9print("high temperature and humidity of:",a,b,"%","alarm is on")

10elif(a<35 and b<60):

11print("Normal temperature and humidity of:",a,b,"%","alarm is off")

12continue

13

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Normal temperature and humidity of: 34 46 % alarm is off
Normal temperature and humidity of: 21 47 % alarm is off
high temperature and humidity of: 62 82 % alarm is on
Normal temperature and humidity of: 21 41 % alarm is off
Normal temperature and humidity of: 33 14 % alarm is off
Normal temperature and humidity of: 12 42 % alarm is off
Normal temperature and humidity of: 23 20 % alarm is off
high temperature and humidity of: 36 68 % alarm is on
high temperature and humidity of: 61 65 % alarm is on
Normal temperature and humidity of: 31 57 % alarm is off
high temperature and humidity of: 57 80 % alarm is on
high temperature and humidity of: 50 61 % alarm is on
Normal temperature and humidity of: 20 16 % alarm is off
Normal temperature and humidity of: 23 18 % alarm is off
high temperature and humidity of: 50 63 % alarm is on
high temperature and humidity of: 65 90 % alarm is on
Normal temperature and humidity of: 32 37 % alarm is off
Normal temperature and humidity of: 18 50 % alarm is off
high temperature and humidity of: 39 78 % alarm is on
Normal temperature and humidity of: 17 59 % alarm is off
high temperature and humidity of: 39 83 % alarm is on

OUTLINE

TIMELINE

0 0 0