IoT ASSIGNMENT

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

NAME : Adhithya R

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(1)
        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 :

ibm assignment 2.py - C:/Users/MOHAMED ABDULLAH/PycharmProjects/IBM BASIC/ibm assignment 2.py (3.1...

File Edit Format Run Options Window Help

```
import random   #importing random values
import time     #importing time to introduce delay between instantaneous random values
while (True):   #looping the random values
  time.sleep(1)
  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
```

Ln: 10 Col: 15

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Normal temperature and humidity of: 28 32 % alarm is off
high temperature and humidity of: 52 85 % alarm is on
high temperature and humidity of: 58 88 % alarm is on
Normal temperature and humidity of: 17 38 % alarm is off
high temperature and humidity of: 65 70 % alarm is on
Normal temperature and humidity of: 11 32 % alarm is off
Normal temperature and humidity of: 14 24 % alarm is off
high temperature and humidity of: 56 78 % alarm is on
high temperature and humidity of: 41 64 % alarm is on
high temperature and humidity of: 38 90 % alarm is on
Normal temperature and humidity of: 26 40 % alarm is off
Normal temperature and humidity of: 23 42 % alarm is off
high temperature and humidity of: 42 84 % alarm is on
high temperature and humidity of: 37 91 % alarm is on
Normal temperature and humidity of: 12 37 % alarm is off
Normal temperature and humidity of: 32 12 % alarm is off
Normal temperature and humidity of: 23 46 % alarm is off
high temperature and humidity of: 57 82 % alarm is on
Normal temperature and humidity of: 13 23 % alarm is off
high temperature and humidity of: 59 70 % alarm is on
high temperature and humidity of: 65 84 % alarm is on
```

Ln: 706 Col: 0