IOT ASSIGNMENT

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

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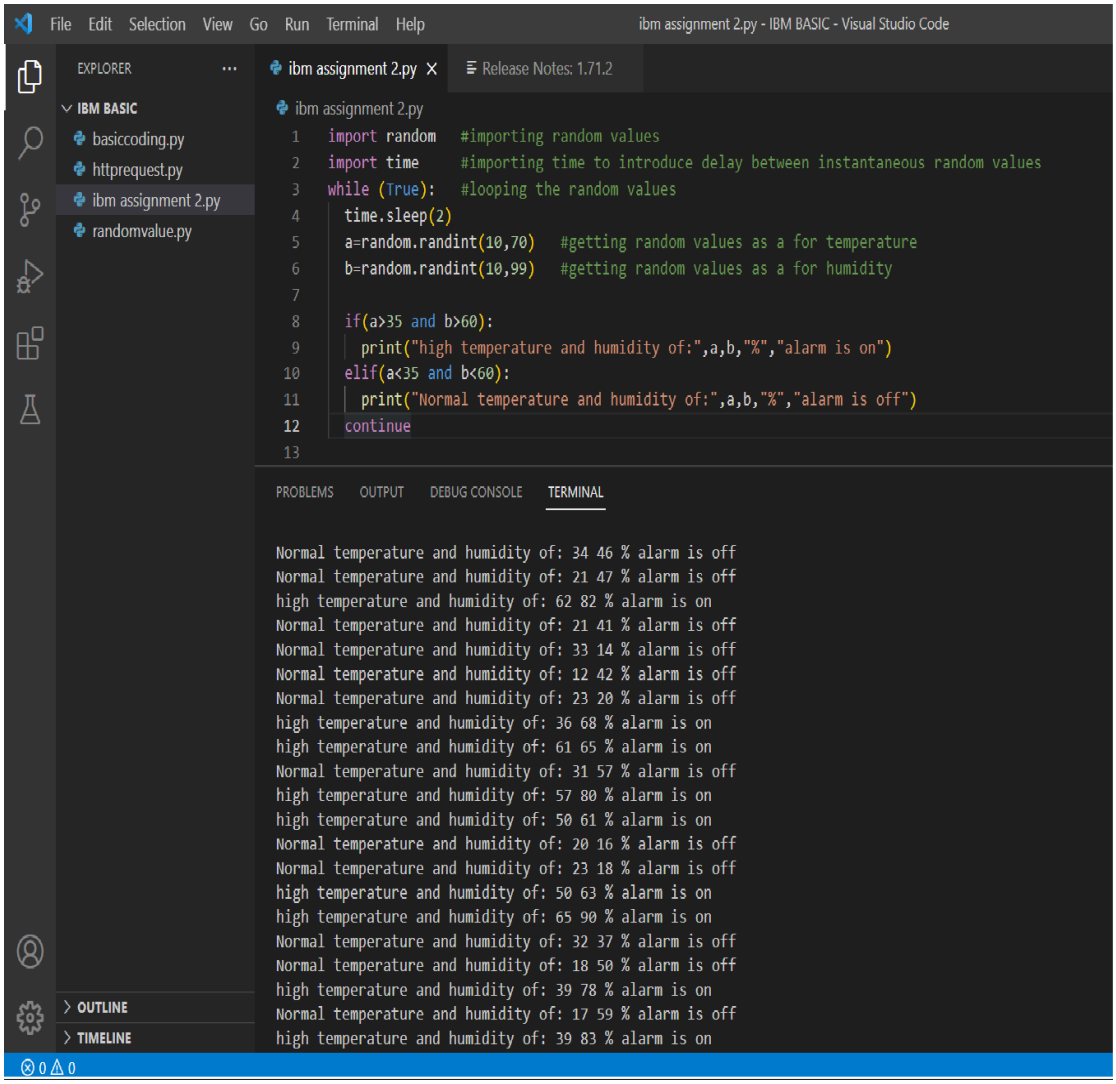
CODE:

```
import random   #importing random variables
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:


File Edit Selection View Go Run Terminal Help
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
Release Notes: 1.71.2
ibm assignment 2.py
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3 while (True): #looping the random values
4 time.sleep(2)
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6 b=random.randint(10,99) #getting random values as a for humidity
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8 if(a>35 and b>60):
9 print("high temperature and humidity of:",a,b,"%","alarm is on")
10 elif(a<35 and b<60):
11 print("Normal temperature and humidity of:",a,b,"%","alarm is off")
12 continue
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