

ASSIGNMENT-2

Build a python code, Assume u get temperature and humidity values(generated with randomfunction to a variable)and write a condition to continuously detect alarm in caseof high temperature.

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BATCH: B2-2M4E

CODE:

```
i
m
p
o

r
t

r
a
n
d
o

o
m
i
= 5
while True:
    a = random.randint(10,1000)
    b = random.randint(10,1000)
    if(a>35 and b<65):
        print("HIGH TEMPERATURE AND HMIDITY",a,b,"%","ALARM IS ON")
    elif(a<35 and b>65):
        print("NORMAL TEMPRATURE AND HUMIDITY",a,b,"%","ALARM IS OFF")
    if(i<55):
        i=i+1
        random
    else:
```

```

        break
import random
i = 5
while True:
    a = random.randint(10,1000)
    b = random.randint(10,1000)
    if(a>35 and b<65):
        print("HIGH TEMPERATURE AND HMIDITY",a,b,"%","ALARM IS ON")
    elif(a<35 and b>65):
        print("NORMAL TEMPRATURE AND HUMIDITY",a,b,"%","ALARM IS OFF")
    if(i<55):
        random

    else:
        break

```

OUTPUT:

The screenshot shows the Visual Studio Code editor with a file named 'assign2.py' open. The code in the editor is as follows:

```

1 import random
2 i = 5
3 while True:
4     a = random.randint(10,1000)
5     b = random.randint(10,1000)
6
7     if(a>35 and b<65):
8         print("HIGH TEMPERATURE AND HMIDITY",a,b,"%","ALARM IS ON")
9     elif(a<35 and b>65):
10        print("NORMAL TEMPRATURE AND HUMIDITY",a,b,"%","ALARM IS OFF")
11    if(i<55):
12        i=i+1
13        random
14    else:
15        break

```

The terminal window at the bottom shows the execution of the script using the command: `python -u "c:\Users\Bala\Desktop\final project\assign2.py"`. The output of the script is as follows:

```

PS E:\bala\htmlcss> python -u "c:\Users\Bala\Desktop\final project\assign2.py"
HIGH TEMPERATURE AND HMIDITY 61 44 % ALARM IS ON
HIGH TEMPERATURE AND HMIDITY 701 47 % ALARM IS ON
NORMAL TEMPRATURE AND HUMIDITY 15 518 % ALARM IS OFF
HIGH TEMPERATURE AND HMIDITY 800 56 % ALARM IS ON
PS E:\bala\htmlcss> python -u "c:\Users\Bala\Desktop\final project\assign2.py"
HIGH TEMPERATURE AND HMIDITY 692 41 % ALARM IS ON
HIGH TEMPERATURE AND HMIDITY 184 36 % ALARM IS ON
HIGH TEMPERATURE AND HMIDITY 289 24 % ALARM IS ON
HIGH TEMPERATURE AND HMIDITY 700 44 % ALARM IS ON

```