

IOT ASSIGNMENT-2

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

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CODE:

Import random

i=2

while(True):

 a=random.randint(15,89)

 b=random.randint(15,89)

 if(a>20 and b<57):

 print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS ON")

 elif(a<20 and b>57):

 print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS OFF")

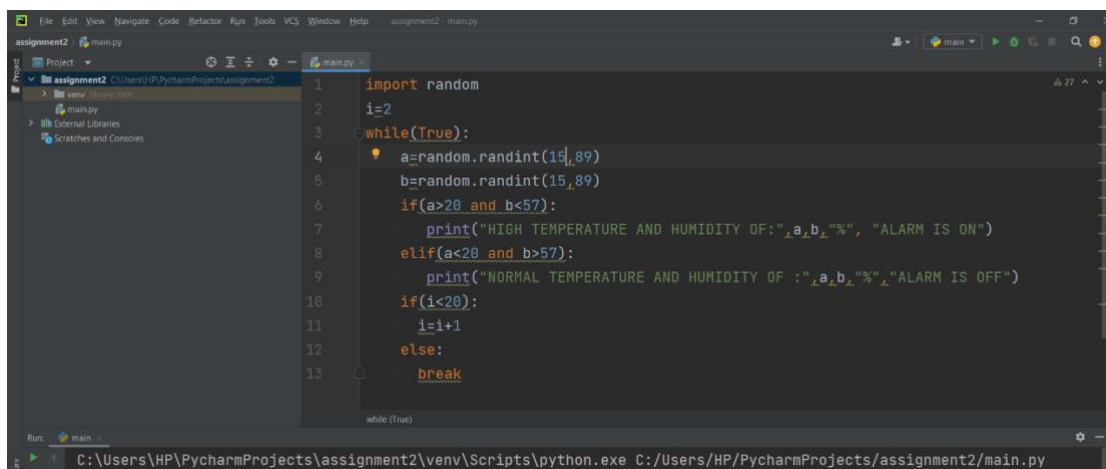
 if(i<20):

 i=i+1

 random

else:

 break

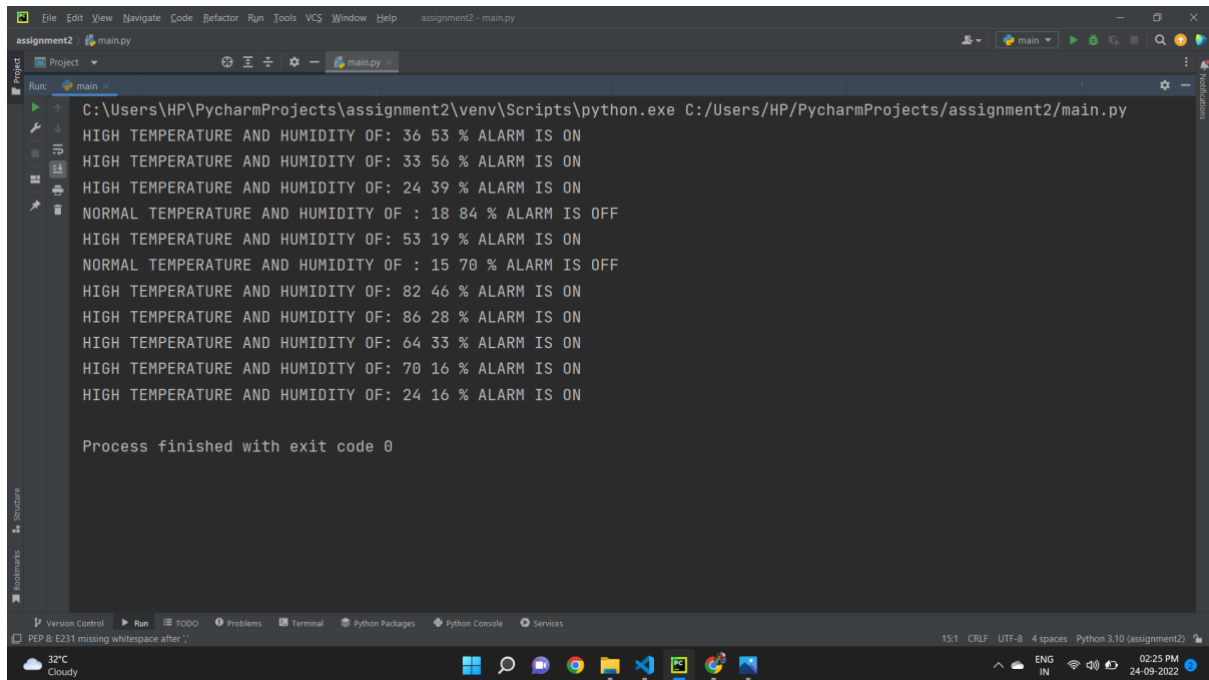


```
1 import random
2 i=2
3 while(True):
4     a=random.randint(15,89)
5     b=random.randint(15,89)
6     if(a>20 and b<57):
7         print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS ON")
8     elif(a<20 and b>57):
9         print("NORMAL TEMPERATURE AND HUMIDITY OF :",a,b,"%", "ALARM IS OFF")
10    if(i<20):
11        i=i+1
12    else:
13        break
```

Run: main

C:\Users\HP\PycharmProjects\assignment2\venv\Scripts\python.exe C:/Users/HP/PycharmProjects/assignment2/main.py

OUTPUT:



```
C:\Users\HP\PycharmProjects\assignment2\venv\Scripts\python.exe C:/Users/HP/PycharmProjects/assignment2/main.py
HIGH TEMPERATURE AND HUMIDITY OF: 36 53 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 33 56 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 24 39 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF : 18 84 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 53 19 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF : 15 70 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 82 46 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 86 28 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 64 33 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 70 16 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 24 16 % ALARM IS ON

Process finished with exit code 0
```

PEP 8: E231 missing whitespace after ':'

15:1 CRLF UTF-8 4 spaces Python 3.10 (assignment2)

32°C Cloudy 02:25 PM 24-09-2022