

ASSIGNMENT – 2

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OBJECTIVES

Build a python code, assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

CODE

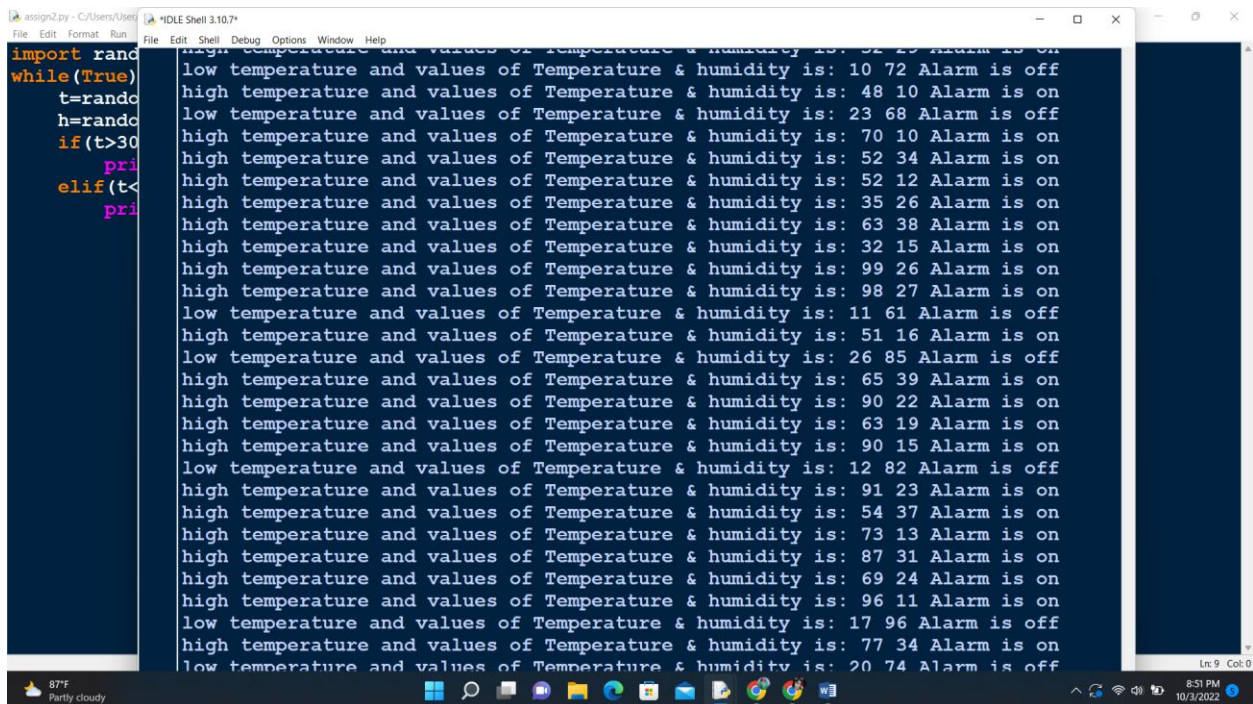
```
import random  
while(True):  
    t=random.randint(10,99)  
    h=random.randint(10,99)  
    if(t>30 and h<40):
```

```
print("High temperature and values of  
temperature & humidity is:",t,h,"Alarm is  
on")
```

```
elif(t<30 and h>40)
```

```
print("Low temperature and values of  
temperature & humidity is:",t,h,"Alarm is  
off")
```

OUTPUT



```
import random
while(True):
    t=random.randint(10,100)
    h=random.randint(10,100)
    if(t>30 and h<40):
        print("High temperature and values of Temperature & humidity is:",t,h,"Alarm is on")
    elif(t<30 and h>40):
        print("Low temperature and values of Temperature & humidity is:",t,h,"Alarm is off")
    else:
        print("Normal temperature and values of Temperature & humidity is:",t,h,"Alarm is off")
```

The screenshot shows the output of the script in the IDLE Shell. The output consists of multiple lines of text, each representing a random sample of temperature (t) and humidity (h) values, followed by the alarm status. The status is "Alarm is on" for high temperature and low humidity, "Alarm is off" for low temperature and high humidity, and "Alarm is off" for normal conditions. The output is as follows:

Temperature (t)	Humidity (h)	Alarm Status
28	25	Alarm is on
10	72	Alarm is off
48	10	Alarm is on
23	68	Alarm is off
70	10	Alarm is on
52	34	Alarm is on
52	12	Alarm is on
35	26	Alarm is on
63	38	Alarm is on
32	15	Alarm is on
99	26	Alarm is on
98	27	Alarm is on
11	61	Alarm is off
51	16	Alarm is on
26	85	Alarm is off
65	39	Alarm is on
90	22	Alarm is on
63	19	Alarm is on
90	15	Alarm is on
12	82	Alarm is off
91	23	Alarm is on
54	37	Alarm is on
73	13	Alarm is on
87	31	Alarm is on
69	24	Alarm is on
96	11	Alarm is on
17	96	Alarm is off
77	34	Alarm is on
20	74	Alarm is off