

# **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**

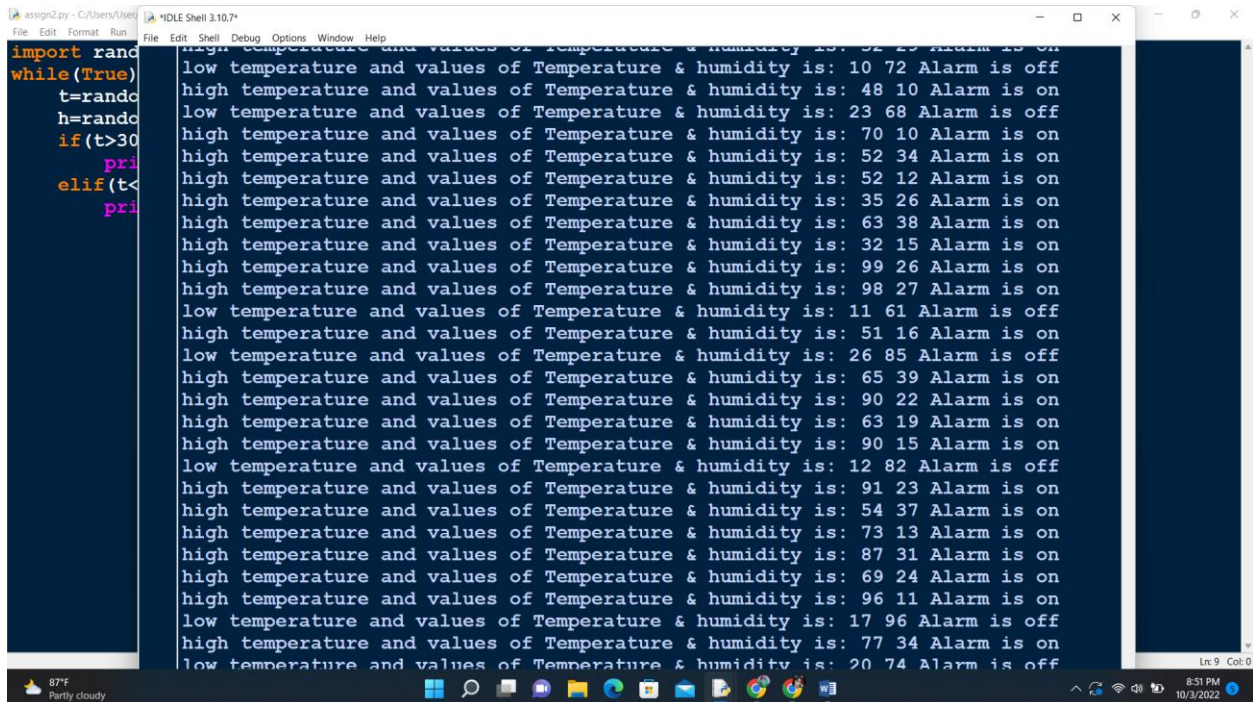
```
import random  
while(True):  
    t=random.randint(10,99)  
    h=random.randint(10,99)  
    if(t>30 and h<40):
```

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

The screenshot shows a Python IDE window titled "assign2.py - C:/Users/..." with a menu bar (File, Edit, Format, Run, Shell, Debug, Options, Window, Help). The code in the editor is a while loop that generates random temperature (t) and humidity (h) values. It prints the values and whether an alarm is on or off based on the conditions: if t > 30 and h < 40, the alarm is on; if t < 30 and h > 40, the alarm is off; otherwise, the alarm is on. The output in the shell window shows multiple iterations of this loop, with values ranging from 10 to 100 for both temperature and humidity, and the alarm status alternating between "on" and "off".