

# **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)
```

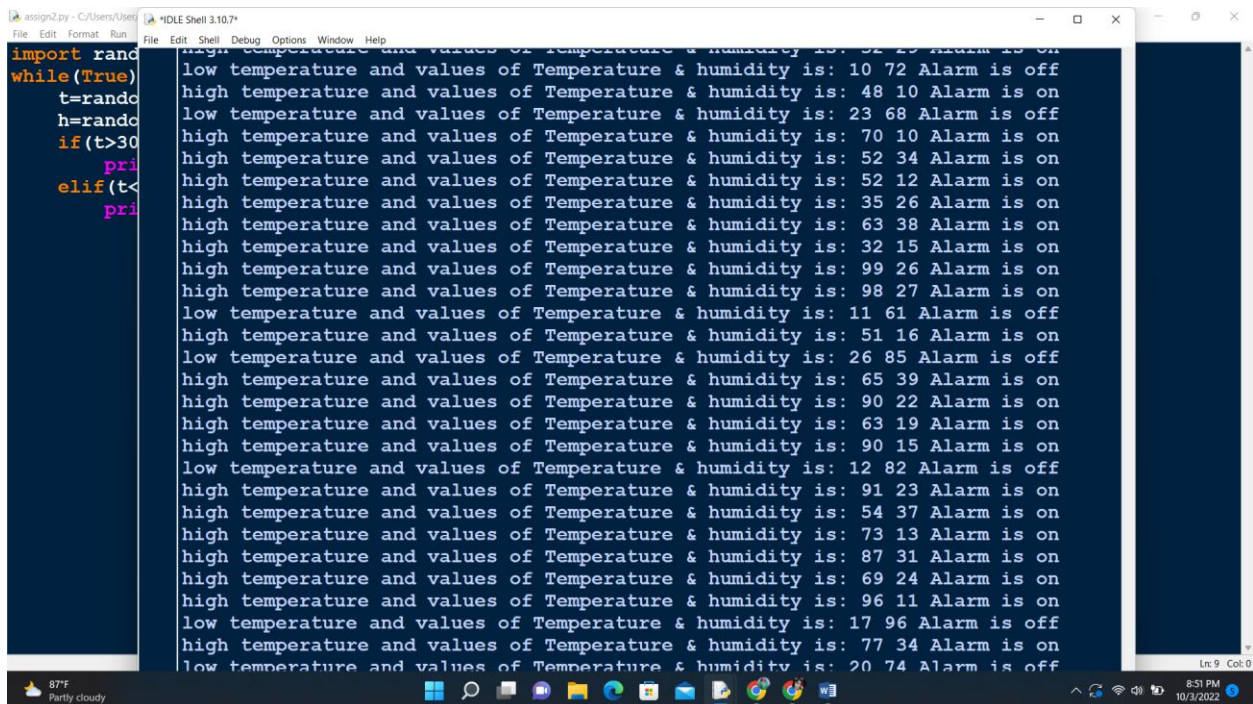
```
    if(t>30 and h<40):
```

```
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 script is running in a loop, as indicated by the "while(True):" statement.