

ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE.

CODE :

```
import random
#Condition to check continuously
while(True):
    #Input Values
    T = random.randint(-30,100)
    H = random.randint(0,100)
    print("Temperature = ",T)
    print("Humidity = ",H)

#Condition for Alarm

    if T>60:
        if H>80:
            print("Hazard... Alarm On with Max sound")
        else:
            print("High Temperature... Alarm On")
    elif T==60:
        print("Temp at Max level... Alarm On")
    else:
        print("Normal... No Alarm")
```

Output:



The screenshot shows a Python script execution window titled "Python Shell (3.10.7)". The script is running a loop that generates random temperature (T) and humidity (H) values and prints the status based on the conditions defined in the code. The output shows several iterations where the alarm is off, followed by one iteration where the alarm is on due to high temperature and humidity, and then more iterations where the alarm is off.

```
Normal... Alarm Off
Temperature Value = 1
Humidity Value = 40
Normal... Alarm Off
Temperature Value = 39
Humidity Value = 51
Normal... Alarm Off
Temperature Value = 49
Humidity Value = 14
Normal... Alarm Off
Temperature Value = 26
Humidity Value = 19
Normal... Alarm Off
Temperature Value = 1
Humidity Value = 66
Normal... Alarm Off
Temperature Value = 100
Humidity Value = 93
Hazard... Alarm On with Max sound
Temperature Value = 56
Humidity Value = 92
Normal... Alarm Off
Temperature Value = 43
Humidity Value = 22
Normal... Alarm Off
Temperature Value = 0
Humidity Value = 1
Normal... Alarm Off
Temperature Value = 29
Humidity Value = 63
Normal... Alarm Off
Temperature Value = 68
Humidity Value = 68
High Temperature... Alarm On
Temperature Value = 52
Humidity Value = 36
Normal... Alarm Off
Temperature Value = 84
Humidity Value = 55
Humidity Value = 55
```

