

NAME :N.TAMILARASI ROLL NO :19CS171 ASSIGNMENT - 2
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ASSIGNMENT-2

"Build a python code,assume u get temperature and Humidity valuses (generated with random function to a variable) and write a condition to continuosly detect alarm in case of high temperature"

```
import random
import time
while(1):
    temperature=random.randint(0,200) #TO GENERATE RANDOM NUMBER FOR
    TEMPERATURE
    print("Temperature="+str(temperature)+ " F")
    print("Temperature in celcius : "+str(((temperature-32)*5)//9)+ " C")
    if(temperature>50): #IF TEMPERATURE GOES HIGH THEN ALARM IS ON
        print("Temperature is too high")
        print("The Alarm is ON")
    else: #TEMPERATURE VALUE GOES NORMAL THEN ALARM IS OFF
        print("Temperature is normal")
        print("The Alaram is OFF")

    humidity=random.randint(0,100) #TO GENERATE RANDOM NUMER FOR
    HUMIDITY
    print("Humidity="+str(humidity)+"%")

    if(humidity<50):
        print("Humidity is less tha 50")
    else:
        print("Humidity is greater than 50")

    time.sleep(2)
```

```
*Python 3.7.0 Shell*
File Edit Shell Debug Options
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=69°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=66°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=191°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=66°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=90°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=141°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=90°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=176°F
Temperature in celcius : 1
Temperature is too high
The Alarm is ON
Temperature=3°F
Temperature in celcius : 0
Temperature is normal
The Alarm is OFF
Humidity=55%
Humidity is greater than 50%
|
```

