

NAME : AJITH S
ROLL NO : 211419106015
ASSIGNMENT - 2

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 : 2
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 : 6
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 : 3
Temperature is too high
The Alarm is ON
Temperature=141°F
Temperature in celcius : 6
Temperature is too high
The Alarm is ON
Temperature=90°F
Temperature in celcius : 3
Temperature is too high
The Alarm is ON
Temperature=176°F
Temperature in celcius : 6
Temperature is too high
The Alarm is ON
Temperature=3°F
Temperature in celcius : -
Temperature is normal
The Alarm is OFF
Humidity=55%
Humidity is greater than 50%
```

Type here to search