

Question:

BUILD A PYTHON CODE , ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE

Solution:

```
#from machine import Pin
import random
from time import sleep
#btn=Pin(4,Pin.IN) while
while True:
    temp = random.randint(1,100)
    print("current temp=",temp)
    humid = random.randint(1,100)
    print("current humid=",humid)
    if(temp>=50 and humid<35):
        print("Alarm On")
    else:
        print("Alarm Off")
    sleep(2)
```

Output:



main.py



Run

Shell

```
1 #from machine import Pin
2 import random
3 from time import sleep
4 #btn=Pin(4,Pin.IN) while
5 while True:
6     temp = random.randint(1,100)
7     print("current temp=",temp)
8     humid = random.randint(1,100)
9     print("current humid=",humid)
10    if(temp>=50 and humid<35):
11        print("Alarm On")
12    else:
13        print("Alarm Off")
14    sleep(2)
```

```
current humid= 76
Alarm Off
current temp= 49
current humid= 66
Alarm Off
current temp= 94
current humid= 61
Alarm Off
current temp= 56
current humid= 50
Alarm Off
current temp= 65
current humid= 68
Alarm Off
current temp= 22
```