

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN

ASSIGNMENT-2

TEAM LEADER: DEEPAK J

TEAM MEMBER: DEVATHARSHINI S A

KAVIYA B

NITHIYA SRI R

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

PROGRAM:

```
#from machine import Pin
import random
import time
import sleep
#btn=Pin(4,Pin.IN) 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 :



The screenshot shows a Python IDE with a file named 'temp&humid.py'. The script is a loop that generates random temperature and humidity values. It prints these values and checks if the temperature is greater than or equal to 50 and the humidity is less than 35. If this condition is met, it prints 'Alarm On'; otherwise, it prints 'Alarm Off'. The script includes a 2-second sleep between iterations. The output window shows the results of the first three iterations, all of which resulted in 'Alarm Off'.

```
1 #from machine import Pin
2 import random
3 from time import sleep
4 #btn=Pin(4,Pin.IN)
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)
15
16
```

Shell

```
Alarm Off
current temp= 28
current humid= 38
Alarm Off
current temp= 41
current humid= 25
Alarm Off
```