

ASSIGNMENT-2

Python programming

Assignment Date	01 October 2022
Student Name	Ms. Shalinni
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Maximum Marks	2 Marks

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		current humid= 76
2	import random		Alarm Off
3	from time import sleep		current temp= 49
4	#btn=Pin(4,Pin.IN) while		current humid= 66
5	while True:		Alarm Off
6	temp = random.randint(1,100)		current temp= 94
7	print("current temp=",temp)		current humid= 61
8	humid = random.randint(1,100)		Alarm Off
9	print("current humid=",humid)		current temp= 56
10	if(temp>=50 and humid<35):		current humid= 50
11	print("Alarm On")		Alarm Off
12	else:		current temp= 65
13	print("Alarm Off")		current humid= 68
14	sleep(2)		Alarm Off
			current temp= 22