

ASSIGNMENT-2

Python programming

Assignment Date	01 October 2022
Student Name	Ms. Ramyasri
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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
<pre>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)</pre>		<pre>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</pre>

