

Assignment -1
Smart home automation

Assignment Date	21 September 2022
Student Name	Mr. Madhan babu S
Student Roll Number	621319205017
Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Program:

```
import random
def temp(t):
    if(t>36 and t<80):
        print("alaram ring high")
    elif(t>-7 and t<36):
        print(t)
    elif(t<-5):
        print("alaram ring low")
    print(t)

def hum(h):
    if(h>36 and h<80):
        print("alaram ring high")
    elif(h>-7 and h<36):
        print(t)
    elif(h<-5):
        print("alaram ring low")
    print(h)

i=0
while i<5:
    h=random.randint(0,100)
    t=random.randint(-40,50)
    temp(t)
    hum(h)
    i+=1
```

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```
17         print(t)
18     elif(t<-5):
19         print("alaram ring low")
20     print(t)
21
22     def hum(h):
23         if(h>36 and h<80):
24             print("alaram ring high")
25         elif(h>-7 and h<36):
26             print(t)
27         elif(h<-5):
28             print("alaram ring low")
29         print(h)
30
31     i=0
32     while i<5:
33         h=random.randint(0,100)
34         t=random.randint(-40,50)
35         temp(t)
36         hum(h)
37         i+=1
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALJUPYTER

PS D:\python> & 'C:\Users\welcome\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\welcome\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63346' '--' 'd:\pyt
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alaram ring low
-20
-20
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alaram ring low
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