

## Assignment -2

### Python Programming

Assignment Date	19 September 2022
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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.

#### Solution:

```
import random

from time import *

flag=True

while(flag):

    s = random.randint(0,50)

    t = random.randint(10,50)

    if s>45 and t<30:

        print("Ambient Temperature =",s,"Ambient Humidity =",t)

        print("-----ALARM ON-----")

        flag=False

    else:

        print("Ambient Temperature =",s,"Ambient Humidity",t)

        sleep(0.5);
```

## Output:

main.py	Shell
<pre>1 import random 2 from time import * 3 flag=True 4 while(flag): 5     s = random.randint(0,50) 6     t = random.randint(10,50) 7     if s&gt;45 and t&lt;30: 8         print("Ambient Temperature =",s,"Ambient Humidity =",t) 9         print("-----ALARM ON-----") 10        flag=False 11    else: 12        print("Ambient Temperature =",s,"Ambient Humidity",t) 13        sleep(0.5);</pre>	<pre>Ambient Temperature = 6 Ambient Humidity 10 Ambient Temperature = 38 Ambient Humidity 25 Ambient Temperature = 2 Ambient Humidity 25 Ambient Temperature = 41 Ambient Humidity 26 Ambient Temperature = 23 Ambient Humidity 37 Ambient Temperature = 47 Ambient Humidity 39 Ambient Temperature = 48 Ambient Humidity = 10 -----ALARM ON----- &gt;  </pre>