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):

  x= random.randint(0,50)

  y = random.randint(10,50)

  if x>45 and y<30:

    print("Ambient Temperature =",x,"Ambient Humidity =",y)

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

    flag=False

  else:

    print("Ambient Temperature =",x,"Ambient Humidity",y)

    sleep(0.5);
```

Output:

```python
1   import random
2   from time import *
3   flag=True
4 ▾ while(flag):
5       x = random.randint(0,50)
6       y = random.randint(10,50)
7 ▾    if x>45 and y<30:
8           print("Ambient Temperature =",x,"Ambient Humidity =",y)
9           print("--------------------ALARM ON--------------------")
10          flag=False
11 ▾   else:
12          print("Ambient Temperature =",x,"Ambient Humidity",y)
13          sleep(0.5);
```

```
Ambient Temperature = 15 Ambient Humidity 38
Ambient Temperature = 48 Ambient Humidity 36
Ambient Temperature = 31 Ambient Humidity 44
Ambient Temperature = 20 Ambient Humidity 47
Ambient Temperature = 17 Ambient Humidity 39
Ambient Temperature = 27 Ambient Humidity 28
Ambient Temperature = 48 Ambient Humidity = 16
--------------------ALARM ON--------------------
> |
```