

Assignment -2

Python Programming

Assignment Date	25 September 2022
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Maximum Marks	2 Marks

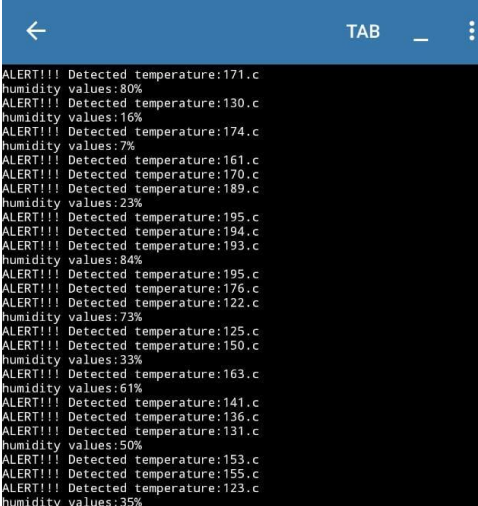
Question-1:

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
import time
while(1):
    temp= random.randint(0,200)
    humidity=random.randint(0,200)
    if temp>120:
        print("ALERT!!! Detected temperature:"+str(temp)+".c")
        if humidity<100:
            print("humidity values:"+str(humidity)+"%")
            time.sleep(2)
```

```
1 import random
2 import time
3 while(1):
4     temp= random.randint(0,200)
5     humidity=random.randint(0,200)
6     if temp>120:
7         print("ALERT!!! Detected temperature:"+
8 str(temp)+".c")
9         if humidity<100:
10            print("humidity values:"+str(humidity)+"%")
11            time.sleep(2)
```



```
← TAB _ ⋮
ALERT!!! Detected temperature:171.c
humidity values:80%
ALERT!!! Detected temperature:130.c
humidity values:16%
ALERT!!! Detected temperature:174.c
humidity values:7%
ALERT!!! Detected temperature:161.c
ALERT!!! Detected temperature:170.c
ALERT!!! Detected temperature:189.c
humidity values:23%
ALERT!!! Detected temperature:195.c
ALERT!!! Detected temperature:194.c
ALERT!!! Detected temperature:193.c
humidity values:84%
ALERT!!! Detected temperature:195.c
ALERT!!! Detected temperature:176.c
ALERT!!! Detected temperature:122.c
humidity values:73%
ALERT!!! Detected temperature:125.c
ALERT!!! Detected temperature:150.c
humidity values:33%
ALERT!!! Detected temperature:163.c
humidity values:61%
ALERT!!! Detected temperature:141.c
ALERT!!! Detected temperature:136.c
ALERT!!! Detected temperature:131.c
humidity values:50%
ALERT!!! Detected temperature:153.c
ALERT!!! Detected temperature:155.c
ALERT!!! Detected temperature:123.c
humidity values:35%
```

