

Assignment -2
Python Programming

Assignment Date	21 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:

PROGRAM:

Import random

Import time

While(1) :

temp=random.randint(0, 100)

humidity=random.randint(0, 100)

if temp>50 :

print ("ALERT!! Temperature limit has been reached. Detected temperatur:"+str(temp)+"c")

time.sleep(1)

INPUT:

A screenshot of a Windows desktop environment. At the top, a code editor window titled 'code1.py - C:/Users/chandra mohan/Documents/python/code1.py (3.10.7)' is open. The code inside is as follows:

```
import random
import time

while(1):
    temp=random.randint(0,100)
    humidity=random.randint(0,100)
    if temp>50:
        print ("ALERT!! Temperature limit has been reached .Detected temperature:"+str(temp)+"c")
        time.sleep(1)
```

The code is syntax-highlighted. Below the code editor, the Windows taskbar is visible, showing the Start button, a search bar, and several pinned application icons. The system tray on the right shows the date and time as '3:50 AM 9/27/2022' and the weather as '33°C Partly sunny'.

OUTPUT:

```
"IDLE Shell 3.10.7"
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/chandra mohan/Documents/phython/code1.py =====
ALERT!! Temperature limit has been reached .Detected temperature:88C
ALERT!! Temperature limit has been reached .Detected temperature:93C
ALERT!! Temperature limit has been reached .Detected temperature:93C
ALERT!! Temperature limit has been reached .Detected temperature:92C
ALERT!! Temperature limit has been reached .Detected temperature:85C
ALERT!! Temperature limit has been reached .Detected temperature:77C
ALERT!! Temperature limit has been reached .Detected temperature:68C
ALERT!! Temperature limit has been reached .Detected temperature:94C
ALERT!! Temperature limit has been reached .Detected temperature:82C
ALERT!! Temperature limit has been reached .Detected temperature:55C
ALERT!! Temperature limit has been reached .Detected temperature:92C
ALERT!! Temperature limit has been reached .Detected temperature:90C
ALERT!! Temperature limit has been reached .Detected temperature:68C
ALERT!! Temperature limit has been reached .Detected temperature:63C
ALERT!! Temperature limit has been reached .Detected temperature:100C
ALERT!! Temperature limit has been reached .Detected temperature:98C
```