

## Assignment -1

Assignment Date	26 September 22
Student Name	NAVEEN S
Student Roll Number	621319106061
Maximum Marks	2 Marks

### Question-1:

Build a python code, Assume you 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 the random and time libraries
import random
import time

# iterate the random values of Temperature and humidity within the specified
range
while True:
    temp = random.randint(35, 209)
    humi = random.randint(0, 100)

    #print the values of Temperature and humidity
    print("Temperature is : "+str(temp)+"F")
    print("Temperature in celsius : "+str(((temp-32)*5)//9)+"°")
    print("The Humidity is : "+str(humi)+"%")

    # check if the temperature values are higher than 100F
    if (temp >= 100):
        print("High Temperature Alert : "+str(temp)+"F")
        time.sleep(10)
```

Online Python Compiler (Interpre... x +

← → ↻

programiz.com/python-programming/online-compiler/

Gmail

YouTube

Maps

Programiz

Python Online Compiler

GLASSI

Bonus up to **105,000 INR**

Python

JS

SQL

Go

Java

PHP

Perl

Ruby

Swift

Scala

Python

main.py

1 # import the random and time libraries

2 import random

3 import time

4

5 # iterate the random values of Temperature and humidity within the

6 specified range

7 while True:

8 temp = random.randint(25, 203)

9 humi = random.randint(0, 100)

10

11 #print the values of Temperature and humidity

12 print("Temperature is : "+str(temp)+"°F")

13 print("Temperature in celsius : "+str(((temp-32)\*5)/9)+"°C")

14 print("The Humidity is : "+str(humi)+"%")

15

16 # check if the temperature values are higher than 100°F

17 if (temp >= 100):

18 print("High Temperature Alert : "+str(temp)+"°F")

19 time.sleep(10)

Run

Shell

Temperature is : 65°F

Temperature in celsius : 17.22°C

The Humidity is : 2%

Temperature is : 173°F

Temperature in celsius : 78.33°C

The Humidity is : 13%

High Temperature Alert : 173°F

Temperature is : 162°F

Temperature in celsius : 72.22°C

The Humidity is : 29%

High Temperature Alert : 162°F

Windows

Type here to search

Taskbar icons: File Explorer, Microsoft Edge, Mail, Calendar, Photos, Settings, Task View, Search, and a user profile icon.