

ASSIGNMENT-2

ASSESSMENT DATE	26 SEPTEMBER 2022
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MARKS	2 Marks

PROBLEM:

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.

CODE

```
# import the random and time librarys
import random
import time

# iterate the random values of Temperature and humidity within the specified range
while True:
    temp = random.randint(30, 243)
    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)+"°C")
    print("The Humidity is : "+str(humi)+"%")

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

SIMULATION SCREENSHOT:

GDB online Debugger | Compiler x

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OnlineGDB beta

online compiler and debugger for c/c++

code. compile. run. debug. share.

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main.py

1 # import the random and time librarys

2 import random

3 import time

4

Run Debug Stop Share Save Beautify

Language Python 3

input

Temperature is : 39°F

Temperature in celsius : 3?

The Humidity is : 52%

Temperature is : 207°F

Temperature in celsius : 97?

The Humidity is : 37%

High Temperature Alert : 207°F

Temperature is : 161°F

Temperature in celsius : 71?

The Humidity is : 45%

High Temperature Alert : 161°F

Temperature is : 85°F

Temperature in celsius : 29?

The Humidity is : 87%

Temperature is : 131°F

Temperature in celsius : 55?

The Humidity is : 20%

High Temperature Alert : 131°F

Temperature is : 131°F

Temperature in celsius : 55?

The Humidity is : 91%

High Temperature Alert : 131°F

Temperature is : 243°F

Temperature in celsius : 117?

The Humidity is : 93%

High Temperature Alert : 243°F

type here to search

e

ENG

22:50

25-09-2022