

Assignment -2

Assignment Date	7 OCTOBER 2022
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Student Roll Number	411719205023
Maximum Marks	2 Marks

QUESTION

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 random

def temp(k):
    if c>0 and c<44.0:
        print("the temperature is : ",c," which is safe")
        print("correct temperature")
    elif c<0:
        print("the temperature is:",c," which is too low")
        print("danger: LOW TEMPERATURE!!!")
    elif c>44.0:
        print("the temperature is:",c," which is too high")
        print("danger: HIGH TEMPERATURE!!!")
c=random.randint(-22.0,60.0)
temp(c)
```

OUTPUT:

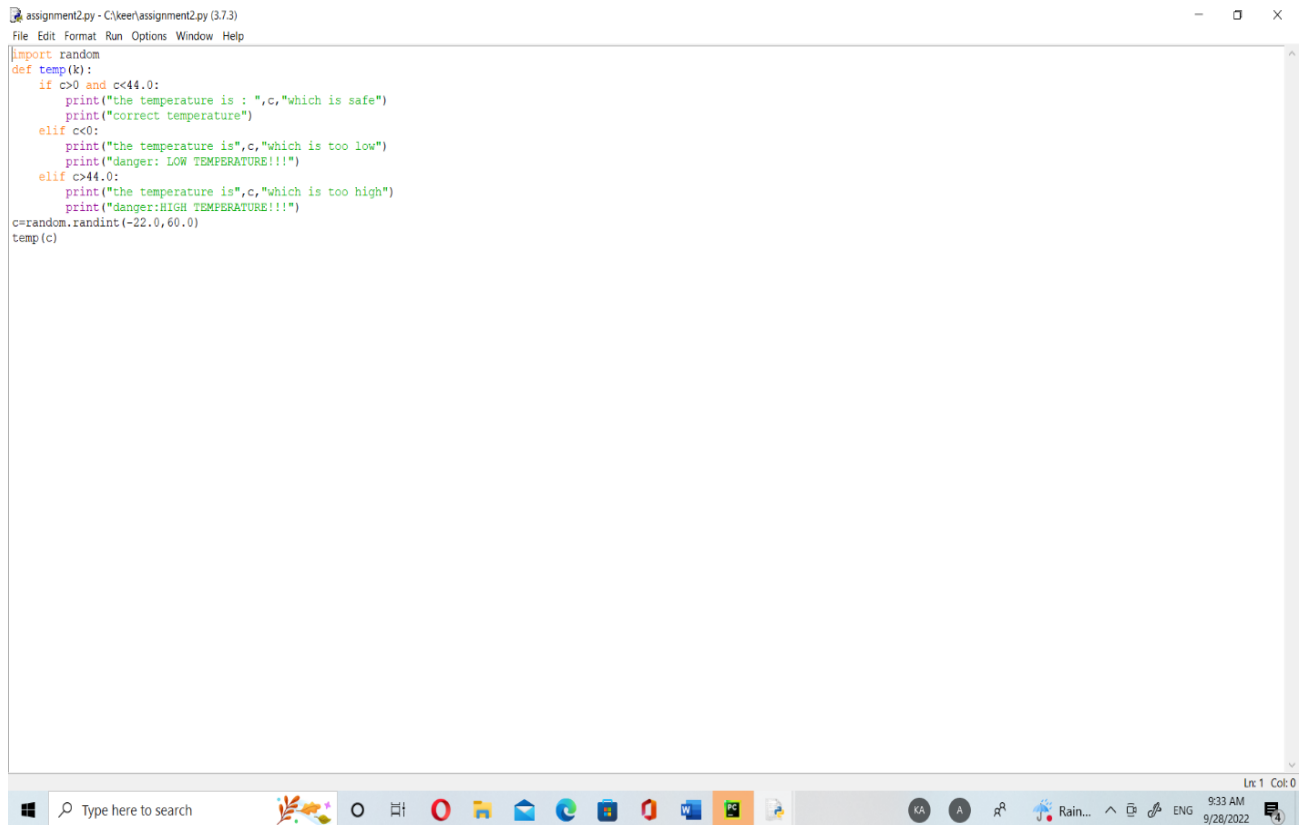
the temperature is -16 which is too low
danger: LOW TEMPERATURE!!!

the temperature is : 11 which is safe

correct temperature

the temperature is 54 which is too high

danger:HIGH TEMPERATURE!!!



The screenshot shows a Python script in an IDE window titled 'assignment2.py - C:\keer\assignment2.py (3.7.3)'. The script defines a function 'temp(k)' that checks if a temperature 'c' is within a safe range (0 to 44.0). If it is, it prints 'the temperature is : ', c, 'which is safe' and 'correct temperature'. If it's below 0, it prints 'the temperature is', c, 'which is too low' and 'danger: LOW TEMPERATURE!!!'. If it's above 44.0, it prints 'the temperature is', c, 'which is too high' and 'danger:HIGH TEMPERATURE!!!'. The script then generates a random temperature 'c' between -22.0 and 60.0 and calls 'temp(c)'. The Windows taskbar at the bottom shows the time as 9:33 AM on 9/28/2022.

```
assignment2.py - C:\keer\assignment2.py (3.7.3)
File Edit Format Run Options Window Help
import random
def temp(k):
    if c>0 and c<44.0:
        print("the temperature is : ",c,"which is safe")
        print("correct temperature")
    elif c<0:
        print("the temperature is",c,"which is too low")
        print("danger: LOW TEMPERATURE!!!")
    elif c>44.0:
        print("the temperature is",c,"which is too high")
        print("danger:HIGH TEMPERATURE!!!")
c=random.randint(-22.0,60.0)
temp(c)
```

Ln 1 Col: 0

9:33 AM 9/28/2022

```
Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Python 3.7.3 (v3.7.3:ef4ec6d12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\keer\assignment2.py =====
the temperature is -16 which is too low
danger: LOW TEMPERATURE!!!
>>>
===== RESTART: C:\keer\assignment2.py =====
the temperature is : 11 which is safe
correct temperature
>>>
===== RESTART: C:\keer\assignment2.py =====
the temperature is 54 which is too high
danger:HIGH TEMPERATURE!!!
>>> |
```

Ln: 15 Col: 4

Windows taskbar: Type here to search, taskbar icons, Rain... 9:39 AM 9/28/2022