

IBM ASSIGNMENT NO : 2

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.

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BATCH:B3-3M5E

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:

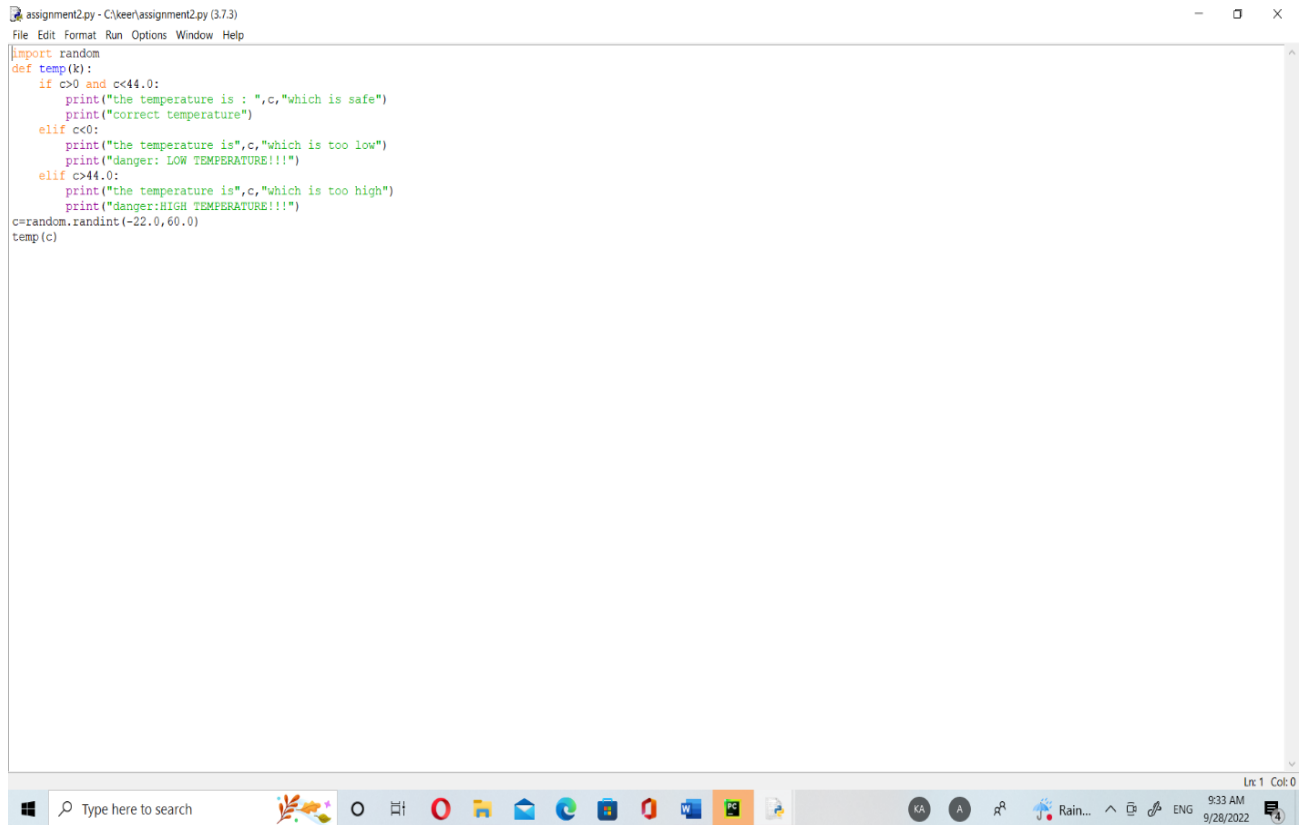
the temperature is -16 which is too low

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 `k` is within a safe range (0 to 44.0). If `k` is greater than 44.0, it prints "danger:HIGH TEMPERATURE!!!". The script also generates a random temperature `c` and calls `temp(c)`.

```
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)
```

The Windows taskbar at the bottom shows the search bar, task view, and several open applications including File Explorer, Edge, and Word. The system tray on the right indicates the time is 9:33 AM on 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, icons for File Explorer, Edge, etc., system tray with date 9/28/2022 and time 9:39 AM.