www.thetechsnippets.com

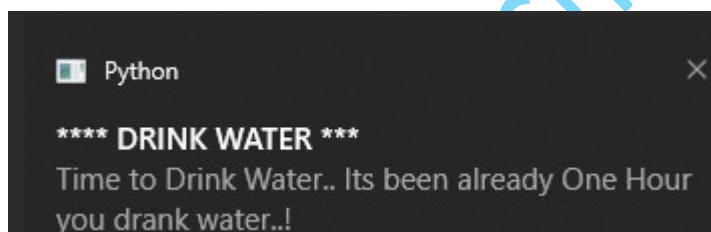# **Windows Desktop Notification**

As a python developer, you are required to build an application with below requirements,

Scenario: Priya is an application developer works for TechSnippets Company. She is a very dedicated developer, always works a lot overtime and takes up new tasks actively pushing beyond her timelines. At the same time, she keeps forgetting her tasks or any personal stuff to do on priority. Below are her priority and important tasks which needs to be done on time,

1. Every one hour she needs to drink water

2. Every 30 minutes she needs to check her new mail in mailbox

So, to remind her on time, she decides to develop and Windows Desktop notification alert application as follows,

- The application should give windows notification as below for every one hour

The title & message of notification is

title="**** DRINK WATER ***",

message="Time to Drink Water.. It's been already One Hour you drank water"

- The application should give windows notification as below for every 30 minutes

The title & message of notification is

title="**** Urgent.. Check your mailbox ***",

message="Check your mail box. It's been already 30 mins you last checked"

- The application should run in windows background service, i.e., even if you close the Pycharm IDE, it should run in background. i.e., the program will start running from the moment device is on and stop at shut down or when you close it. Just run one time to assure the program is error-bug free.

- Ensure the application can be reused for any other desktop notification service by accepting the inputs as parameters to python script while starting it as background service. So, if I want to create some other notification service with this script, I should be able to pass title, message as parameter to the script.

<u>Tips to develop the application:</u>

1. Windows notification can be created by using python external package called **plyer**.

2. You can install the package by running below in command prompt
   C:\\> pip install plyer

3. The below program is ample to create a sample notification,

```python
import time
import plyer

while True:
    plyer.notification.notify(
        title="notification title",
        message="some message"
    )
    time.sleep(10)  # this will make the loop sleep for 10 seconds
```

4. Check the below link to run the python script as background service
   https://www.geeksforgeeks.org/running-python-program-in-the-background/

5. Ensure to use all coding standards and application should be modular enough for code reusability.