**[Desktop/ Laptop Battery Notifier using Python](https://copyassignment.com/desktop-battery-notifier-using-python/)**

As a laptop user, you must take caution about your battery percentage as the battery is also the most important component, that’s why today we will see Desktop Battery Notifier using Python.

So, what if your laptop reminds you about the battery percentage using notification. Yes, you read it correctly using a desktop notifier.

In this article, we are going to see the Psutil library in Python using which we can check battery percentage and send the battery percentage desktop notification using another module Plyer.

## **Psutil Library in Python**

[Psutil](https://pypi.org/project/psutil/) in python is a cross-platform library for retrieving information on running processes and system utilization(CPU, memory, disks, networks, sensors) in Python.

You will need to install two modules one is ‘psutil’ and the other one is ‘plyer’ which will be used to get the notification.

To install ‘psutil’ in your pip. Here’s the command:

pip install psutil

The main function from the psutil module is psutil.sensors\_battery() which returns a named tuple consisting of the following values. If no battery is installed or metrics can’t be determined None is returned.

**percent**: It gives the Power left in your laptop in percentage.

>>>battery.percent

**Output:**

52 #giving battery percentage

Now, if we want to check if the charger is plugged or not, we will have to use:

>>>power\_plugged

This will return either True or False. True if power is plugged in, False if it isn’t charging. Here, in my case it is not plugged hence the output will be:

False

Now, to install ‘plyer’ in your pip. Here’s the simple command:

pip install plyer

As we have the package now, we re ready to import it in our python script.

from plyer import notification

Now, let’s specify the parameters. Let’s define the title and message.

**title** = ‘Battery Reminder’

**message** = ‘Battery is 52’

Let’s look at what the parameters mean:

**title**: Title of the notification

**description**: Message of the notification

**timeout**: duration to display the message say 10secs as default time used.

Now, let’s pass the parameters using the notify method.

notification.notify( “title”, “message”, timeout)

For eg I’m passing:

the title as ‘Battery Reminder’

message as ‘Battery is 52’

and timeout as 2 secs

That’s it!! We are done and now we are using these functions in our code. So, here goes the complete code…

**#import modules**

**from plyer import notification**

**import psutil**

**#returns a tuple**

**battery = psutil.sensors\_battery()**

**plugged = battery.power\_plugged**

**#description of code**

**if \_\_name\_\_=="\_\_main\_\_":**

**if plugged:**

**percent = battery.percent**

**if percent <= 80:**

**notification.notify(**

**#title of notification**

**title = "Plugged In",**

**#message of notification**

**message=" For better battery life, charge upto 80%" ,**

**# displaying time**

**timeout=2**

**)**

**elif percent == 100:**

**notification.notify(**

**title = "Plugged In",**

**message=" Please plugged out the charger. Battery is charged" ,**

**timeout=2**

**)**

**else :**

**notification.notify(**

**title = "Plugged In",**

**message=" Remove the charger please. For better battery life charge up to 80%" ,**

**timeout=2**

**)**

**else:**

**percent = battery.percent**

**if percent <=20:**

**notification.notify(**

**title = "Battery Reminder",**

**message="Your battery is running low. You might want to plug in your PC " ,**

**timeout=2**

**)**

**elif percent <=50:**

**notification.notify(**

**title = "Battery Reminder",**

**message=f" Battery is {percent}." ,**

**timeout=2**

**)**

**elif percent == 100:**

**notification.notify(**

**title = "Battery Reminder",**

**message="Fully charged" ,**

**timeout=2**

**)**

**else:**

**notification.notify(**

**title = "Battery Reminder",**

**message=f"Battery is {percent}" ,**

**timeout=2**

**)**