

### Automating a website using Python:

It's possible to automate a website using Python scripting language and selenium webdriver.

It will be really helpful if you are visiting a site regularly and are just done with clicking all the links to land on a specific page.

You can automate this whole process- from opening the website, getting logged in, clicking multiple links to land at the page of your choice just by pressing a key in your keyboard.

Sounds interesting right?

Here's the code to see how it would work (Only opening a website and clicking the links included in it are demonstrated):

```
# importing the required packages
from selenium import webdriver
from time import sleep

#setting the path(basically where the webdriver for your browser is located in your local computer)
path="E:\\chromedriver.exe"

#passing the path to the webdriver
driver=webdriver.Chrome(path)

#entering the address of the website that you want to visit. Just replace "website_address"
#with the address of the site you want to visit.
#Sleep is used to pass the seconds for which the execution will stop. sleep(3) means that execution will stop for 3 seconds.
driver.get("website_address")
sleep(3)

#Just incase you want to maximise the window
driver.maximize_window()

#clicking on different links in the webpage
click_about=driver.find_element_by_xpath("/html/body/div[1]/ul/li[2]/a").click()
sleep(3)

click_portfolio= driver.find_element_by_xpath("/html/body/div/div[2]/ul/li[6]/a").click()
sleep(3)

click_services=driver.find_element_by_xpath("/html/body/div/li[3]/a").click()
sleep(3)

click_testimonials=driver.find_element_by_xpath("/html/body/li[6]/a").click()
sleep(3)
```

Yeah, so this was the code for an example purpose.

### Note:

**YOU NEED TO HAVE PRIOR PERMISSION OF THE OWNER OR THE DEVELOPER(S) OF THE WEBSITE (OWNER AND DEVELOPER(S) MIGHT BE DIFFERENT INDIVIDUALS OR COMAPNIES, INSTITUTIONS, ETC. IN MANY CASES) BEFORE AUTOMATING THEIR WEBSITE OR A LEGAL ACTION CAN BE TAKEN.**

Some information about the packages and tools used:

- Installing Selenium:

Go to cmd

Type: pip install selenium

- Importing the selenium webdriver:

from selenium import webdriver

**Note:**

- i) You need to install the webdriver for your browser.
- ii) For instance if you have Chrome just Google:
- iii) Download webdriver for chrome and go to the official site (probably the first one) and select the driver which is made for the current version of chrome.

**Note:**

Selenium web driver is compatible with Mozilla Firefox, Google Chrome, Safari, Internet Explorer, etc. but not with the older versions of these. So kindly update if any error is thrown.

- Import time module:

Just type:

from time import sleep