# BROWSER AUTOMATION: WATSAPP USING PYTHON 03

Welcome again to the programming screen cast of browser automation, i hope you have gone through the previous videos and you have installed the two requirements required for browser automation. First of all you need to install the selenium library and second thing you need to install respective web drivers for your web browsers so if you have these two let us go ahead with the programming screen cast of the browser automation. In this particular screen cast i will be giving you limbs of what browser automation is all about and how can selenium library would help us in doing that. So as and always i will import the selenium library i will just write from selenium i need to import web driver import web driver sorry it is web driver so if it doesn't show any error that means your selenium library has installed successfully, if it doesn't show any error that means your selenium library has been installed successfully and if it does show an error that means you need to install you need to check whether your selenium library has been installed or not. So in my case it is not showing any error so that means the selenium library has installed successfully after that i need to initialise the web my driver here so i will take a variable here i will just write browser, browser is just a variable name, you can take any other variable name here since i have imported the web driver i will write web driver dot chrome and in bracket i need to supply the path of my chrome driver i repeat i need to supply the path of my chrome driver here in my case i have installed the chrome driver in downloads so i will just go to downloads and click get info here so here i have the path of chrome driver so i will just copy this and paste here the name of the chrome driver is chrome driver hyphen two so i will just write chrome driver hyphen two i will now click enter here see this is working, the moment i initialise the web driver it is opening the google chrome web browser so it depends on your web driver, whatever web driver you have installed if you initialise that particular web driver it will open your respective web browser in my case it was chrome driver so it is opening the google chrome window here so now we are done with the initialising the web driver, web driver is basically used to open the web browser so i use the web driver to open my google chrome window so next thing what you need to do here is suppose i want to open a particular web site in my google chrome web browser so how can you do that? You will just write browser dot get and in brackets you write the name of that particular website so here i will be just opening the website of selenium library so i just write https colon slash www dot selenium HQ dot org so let us see whether it works or not? So as you can see the selenium the selenium website has been opened there in the goggle chrome web browser window i will show you side by side so you can get the clear idea of how this is working. So here i have the goggle chrome window and on the right hand side i have my ipython console so i will close it again and i will show you how this is working, here i have the google chrome window here i have the ipython console i will i will execute this statement again since we have already close the window it is not working so i will again initialise my browser window here i will click ok now the it has open now let me open this particular webpage i will click enter so you see the selenium hq dot org has been opened here, you see i didn't do anything here i didn't write these particular address in the address bar of my web browser but it has opened automatically i have written a script here in my ipython console so what you need to do here is first of all you need to initialise your web driver after that you can open any web page using the address of that particular web

page and this is browser automation and this is called browser automation so now we are done with it, i will be giving you one or two examples of how can you automate your browser using your selenium library now that we have opened the selenium web page suppose i want to click on this link name download how can you do that using browser automation, this is very much possible in python let me show you how can you do that. So i will just go t my ipython console and i will write variable name here it is elem is equal to browser dot find element underscore by link text by underscore link underscore text and the link text here is downloads so i will supply the link name here is download it should be same as the link in the web page and if it is in upper case you should write it in upper case if it is in lower case you should write it in lower case so i will just click enter here so elem stores the particular length to download and now if i write elem dot click it should click on the download link so i will just click enter, you see the download link has been opened here so this is very much possible in python and very much easy to automate your browser so this is how you can open a particular link on your web page you just used to use the method find element by link text and using that you can click on any particular link and you can you can automate your browser. So we are done with this now if you need to write something in this search bar how can you do that? Well this is also very much possible in python. For that you need to double click on your web page and you need to select the inspect option here. Double click on the web page and you need to select the inspect option here i will just do that till open a window like this which has elements, consoles, sources, network well you need not go into the details i will show you here in this you need to know the id of this particular search bar. How can you do that? As you click on this particular statement it will show you the it will show you the concerned area, here we have the body ok so there i will click here and it will show me the particular elements present on the web page if i keep on clicking on this statements so i need to go to the search bar i will search the search bar here where it is present i think it is present here, so i will just click the down arrow after that here it is header i need to search the header only because the search is in header bar i will just click here, here i have the id no i need to search the edit page no i need to search this search selenium yes it has come to search selenium and here you can see it is showing that label for q and here i need to write in this particular text box its id is q as you can see here input type is equal to text id is equal to q and if i take my mouse there it is showing me that this particular id corresponds to this particular text box as you can see this particular id is corresponding to this particular text box so the id is q so i will just go to the my ipython console and i will write search that is again an variable name search is equal to browser dot now i need to find the element by id so i will write find underscore element underscore by underscore id and the id is here q simply q so i will just press enter here so in search i have the text box and to search i need to send some key so i will just write search dot send keys whatever i need to send there off course i need to search the download so i will just write download it send underscore keys download ok let me click enter here let us see whether it is working or not, see it has the download thing written here in the search box i will just close it as you can see it has the download text written here in search box i didn't do anything i just wrote a script and automated by browser and as you can see browser automation is a very easy thing to do in python and it is very very interesting too, you can do a lot of things using browser automation, this is just step of the ice berg so now we are done with that. So i will just go one by one what we did in this programming screen

cast. First of all we imported the web driver from selenium after that i initialise the browser variable here in which i supplied the web driver path after that what we did we opened a particular web page using the browser automation using selenium library after that we opened the link using find element by link text after that what we did at last we search we search for the text box in the in the inspect element. How can you do that? I will show you again that it becomes clear to you, what we need to do? You need to double click on your web page after that you need to select the inspect option here inspect option it will show you a window here and if you keep if you over your mouse it will also show what this particular element corresponds to this particular element in web page for example in this particular case the body it corresponds to the all of web page and if i click the down arrow here i have the various element i need to search for the search text box i click on div id is equal to container here after that i have different elements first of all it is header then it is m body then it is footer as the search box is in header i just click that down arrow of that header after that i need to go to the particular text box so what i do here is i click on this id is equal to search box after that as you can see you keep on clicking on you keep on clicking on the down arrows and you will get this search box this is the label for the search box and then if i click here input type is equal to text and id is equal to q here it is showing the particular text box so this is concerned text box that we are looking for so its id is q so we have used the method find element by id and i have stored this particular element in search variable after that i clicked after that i sent keys to this particular text box i send the text download and as you can see it has written that particular text in the search text box so this is how you can automate your browser and i will advise you to explore more in browser automation as this is a very interesting topic. So in the next programming screen cast i will tell you how can automate your watsapp using browser automation.