Using of WebDriver reference variable:

Chrome browser / any other browser can be launch by creating the object like:

ChromeDriver d = **new** ChromeDriver();// chrome browser will get open

But in order to execute the same script on the different browser we should have minimum changes in the code which can be done by using reference variable of WebDriver and object of individual browser.

WebDriver driver = **new** ChromeDriver();// chrome browser will get open

We should this way to initialize the browser.

Basic method to control the browser:

1. get(String value): This method will redirect user to the url that we have entered.

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.chrome.driver", "E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

WebDriver driver = **new** ChromeDriver();// chrome browser will get open

driver.get("https://www.facebook.com/");

}

}

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.chrome.driver", "E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

WebDriver driver = **new** ChromeDriver();// chrome browser will get open

driver.get("www.facebook.com/");// InvalidArgumentException—Abnormal termination because http protocol is missing.

}

}

2. To perform maximize operation we have to use maximize() method:

driver.manage().window().maximize();// to maximize the window

driver.get("https://www.google.com");

driver.navigate().back();// browser back button operate

Thread.*sleep*(2000);

driver.navigate().forward(); // browser forward button operate

driver.get("https://jar-download.com/artifact-search/webdrivermanager");

Thread.*sleep*(2000);

driver.navigate().refresh();// browser refresh button

Thread.*sleep*(2000);

driver.close();// close the current browser window

}

Miscellanous methods:

1. getText(): This method returns the text which is available over the webelement.

Example:

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.chrome.driver", "E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

WebDriver driver = **new** ChromeDriver();// chrome browser will get open

driver.manage().window().maximize();// to maximize the window

driver.get("https://opensource-demo.orangehrmlive.com/index.php/dashboard");

WebElement username = driver.findElement(By.*xpath*("//input[@name='txtUsername']"));

username.sendKeys("Admine");

driver.findElement(By.*xpath*("//input[@id='txtPassword']")).sendKeys("admin123");

driver.findElement(By.*xpath*("//input[@type='submit']")).click();

WebElement textmessage = driver.findElement(By.*xpath*("//span[@id='spanMessage']"));

String text = textmessage.getText();

System.***out***.println(text);// Invalid credentials

}

Miscellanous methods:

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

WebDriver driver = **new** ChromeDriver();// chrome browser will get open

driver.manage().window().maximize();// to maximize the window

driver.get("https://www.instagram.com/");

Thread.*sleep*(3000);

WebElement username = driver.findElement(By.*xpath*("//\*[@name='username']"));

username.sendKeys("abc@abc.com");

// to verify that the typed string is the same or not:

String actual = username.getAttribute("value");

System.***out***.println(actual);

**if**(actual.equals("abc@abc.com"))

{

System.***out***.println("value got verified");

}

**else**

{

System.***out***.println("not matched");

}

// username.clear();

// to get the url of the current page

String urlofpage = driver.getCurrentUrl();

System.***out***.println(urlofpage);

// to get the title of the page

String titleofpage = driver.getTitle();

System.***out***.println(titleofpage);

}

}

Output:

abc@abc.com

value got verified

https://www.instagram.com/

Instagram

isEnabled(): This method returns true if the element is in enable state otherwise it will return false.

isSelected(): This method returns true if the element is in the selected state otherwise it will return false.

isDisplayed(): This method returns true if the element is visible over the webpage otherwise it will return false.

Example:

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.chrome.driver", "E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

WebDriver driver = **new** ChromeDriver();// chrome browser will get open

driver.manage().window().maximize();// to maximize the window

driver.get("https://opensource-demo.orangehrmlive.com/index.php/dashboard");

WebElement element = driver.findElement(By.*xpath*("//\*[@name='actionID']"));

**boolean** isvisible = element.isDisplayed();

System.***out***.println("Method is returning "+isvisible);

WebElement username = driver.findElement(By.*xpath*("//input[@name='txtUsername']"));

username.sendKeys("Admin");

driver.findElement(By.*xpath*("//input[@id='txtPassword']")).sendKeys("admin123");

driver.findElement(By.*xpath*("//input[@type='submit']")).click();

driver.findElement(By.*xpath*("//a[@id='menu\_admin\_viewAdminModule']")).click();

WebElement checkbox = driver.findElement(By.*xpath*("(//\*[contains(@id,'ohrmList\_chkSelectRecord\_')])[2]"));

// to check the webelement is enabled

**boolean** isenabletoperformaction = checkbox.isEnabled();

System.***out***.println(isenabletoperformaction);

//to check the webelement is selected or not

**boolean** ischecked = checkbox.isSelected();

System.***out***.println(ischecked);

**boolean** isvisiblee = checkbox.isDisplayed();

System.***out***.println(isvisiblee);

}

Clear(): This method clear the text which is written over the text field.

WebElement username = driver.findElement(By.*xpath*("//input[@name='txtUsername']"));

username.sendKeys("Admin");

username.clear();