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:

```java
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']")).sendK
eys("admin123");



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

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

```java
        String text = textmessage.getText();

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

    }
```

Miscellanous methods:

```java
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);
```

```java
                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