**Selenium WebDriver Commands and Operations**  
  
> Selenium WebDriver Methods are used to perform operations on Web Elements.  
  
> Using Element Locators and WebDriver Methods we create Test Cases.  
  
Element Locators - for recognizing Elements  
  
WebDriver Methods - for performing operations on Elements.  
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**WebDriver Methods**  
  
1) get()   
Description: Opens a specified URL in the Browser window.  
  
Syntax:  
  
driverObject.get("URL");  
  
Example:  
  
driver.get("https://www.google.co.in");  
------------------------------------  
2) getTitle()  
Returns Title of the Browser.  
  
Syntax:  
  
String variable = driver.getTitle();  
  
Example:  
  
driver.get("https://www.google.co.in");  
String Title = driver.getTitle();  
System.out.println(Title);  
------------------------------  
3) getPageSource()  
Returns HTML page source.  
  
Syntax:  
  
String stringName = driver.getPageSource();  
  
Example:  
  
driver.get("https://www.google.co.in");  
String pageSource = driver.getPageSource();  
System.out.println(pageSource);  
------------------------  
4) getCurrentUrl();  
Returns Current URL of the Browser.  
  
Syntax:  
  
String stringName = driver.getCurrentUrl();  
  
Example:  
driver.get("https://www.google.co.in");  
String URL = driver.getCurrentUrl();  
System.out.println(URL);  
-------------------------------  
**Browser Navigation Methods**  
5) navigate().to();  
Loads a new web page in the current browser window.  
  
Syntax:  
driverObject.navigate().to("URL");  
  
Example:  
  
driver.get("https://www.google.co.in");  
String URL = driver.getCurrentUrl();  
System.out.println(URL);  
driver.navigate().to("https://login.yahoo.com/");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
-------------------------------------  
6) navigate().back()  
It moves a single item back in the Browser history.  
  
Syntax:  
  
driver.navigate().back();  
  
Example:  
  
driver.get("https://www.google.co.in");  
String URL = driver.getCurrentUrl();  
System.out.println(URL);  
driver.navigate().to("https://login.yahoo.com/");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
driver.navigate().back();  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
Or  
  
driver.get("https://www.google.co.in");  
String URL = driver.getCurrentUrl();  
System.out.println(URL);  
driver.navigate().to("https://login.yahoo.com/");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
driver.navigate().to("https://www.google.co.in");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
-----------------------------------  
7) navigate().forward();  
It moves single item forward in the Browser history.  
  
Syntax:  
  
driver.navigate().forward();  
  
Example:  
  
driver.get("https://www.google.co.in");  
String URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
driver.navigate().to("https://login.yahoo.com/");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
driver.navigate().back();  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
driver.navigate().forward();  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
Or  
  
driver.get("https://www.google.co.in");  
String URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
driver.navigate().to("https://login.yahoo.com/");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
driver.navigate().to("https://www.google.co.in");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
  
driver.navigate().to("https://login.yahoo.com/");  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
-----------------------------------  
8) navigate().refresh()  
Refresh the current web page  
  
Syntax:  
  
driver.navigate().refresh()  
  
WebDriver driver = new FirefoxDriver();  
driver.get("https://www.google.co.in");  
String URL = driver.getCurrentUrl();  
System.out.println(URL);  
driver.navigate().refresh();  
URL = driver.getCurrentUrl();  
System.out.println(URL);  
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Method Syntax in Java  
  
Object.method();  
Object.property().method();  
Class.method();  
-----------------------------------  
9) close()  
It closes the focused Browser.  
  
Syntax:  
  
driverObject.close();  
  
Example:  
  
driver.get("https://www.google.co.in");  
driver.close();  
-----------------------------------  
10) quit()  
It closes all browser that opened by WebDriver during execution.  
  
Syntax:  
  
driverObject.quit();  
  
Example:   
  
driver.get("file:///C:/Users/gcreddy/Desktop/HTMLExamples/LoginPage.html");  
driver.findElement(By.linkText("Sign In")).click();  
driver.quit();  
-----------------------------------  
11) findElement()  
It finds the first element within the current page using the give locator.  
  
driver.findElement(By.ElementLocator("Value"))  
  
Syntax:  
WebDriver driver = new FirefoxDriver();  
driver.get("file:///C:/Users/gcreddy/Desktop/HTMLExamples/LoginPage.html");  
driver.findElement(By.tagName("input")).sendKeys("abcd");  
  
Or  
  
WebElement Email = driver.findElement(By.id("Email"));  
Email.sendKeys("India");  
-----------------------------------  
12) sendkeys()  
Enters a value into Edit box/Text box  
  
Syntax:  
driver.findElement(By.ElementLocator("value").sendkeys("input data");  
  
Example:  
  
driver.get("https://www.gmail.com");  
driver.findElement(By.id("Email")).sendKeys("India");  
}  
-----------------------------------  
13) clear()  
It clears the value   
  
Syntax:  
driver.findElement(By.ElementLocator("value").clear();  
  
Example:  
driver.get("https://www.gmail.com");  
driver.findElement(By.id("Email")).sendKeys("India");  
Thread.sleep(5000);  
driver.findElement(By.id("Email")).clear();  
-----------------------------------  
14) click()  
Clicks an Element (Buttons, Links)  
  
Syntax:  
  
driver.findElement(By.ElementLocator("value").click;  
  
Example:  
  
driver.get("https://www.gmail.com");  
driver.findElement(By.id("next")).click();  
-----------------------------------  
15) isEnabled()  
It checks weather the Element is in enabled state or not?  
  
Syntax:  
  
boolean variableName = driver.findElement(By.ElementLocator("value").isEnabled();  
  
Example:  
  
driver.get("https://www.gmail.com");  
boolean a = driver.findElement(By.id("next")).isEnabled();  
System.out.println(a);  
-----------------------------------  
16) isDisplayed()  
Checks if the Element is displayed or not? in the current web page.  
  
Syntax:  
  
boolean variableName = driver.findElement(By.ElementLocator("value").isDisplayed();  
  
driver.get("https://www.gmail.com");  
boolean a = driver.findElement(By.id("next")).isDisplayed();  
System.out.println(a);  
-----------------------------------  
17) isSelected()  
checks if the Element is Selected or not? in the current web page.  
  
Syntax:  
  
boolean variableName = driver.findElement(By.ElementLocator("value").isSelected();  
  
Example:  
  
driver.get("file:///C:/Users/gcreddy/Desktop/HTMLExamples/MultipleCheckbox.html");  
boolean a = driver.findElement(By.xpath("html/body/input[2]")).isSelected();  
System.out.println(a);//false  
driver.findElement(By.xpath("html/body/input[2]")).click();  
a = driver.findElement(By.xpath("html/body/input[2]")).isSelected();  
System.out.println(a);//true  
-----------------------------------  
18) manage().window().maximize()  
Syntax:  
  
driverObject.manage().window().maximize()  
  
Example:  
  
driver.get("file:///C:/Users/gcreddy/Desktop/HTMLExamples/MultipleCheckbox.html");  
Thread.sleep(5000);  
driver.manage().window().maximize();  
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