**1. Locators in Selenium:** ID/ClassName/Name/TagName/LinkText/PartialLinkText/Xpath/CSS Selector/DOM

**2. Element in displayed**

**IsDisplayed ():**  
***boolean****buttonPresence = driver.findElement(By.id(“gbqfba”)).isDisplayed();*

**isSelected ():**  
***boolean****buttonSelected = driver.findElement(By.id(“gbqfba”)).isDisplayed();*

**isEnabled():**  
***boolean****searchIconEnabled = driver.findElement(By.id(“gbqfb”)).isEnabled();*

**3. Get a text**

*String Text = driver.findElement (By.id (“Text”)).get Text();*

**4. Select value in a dropdown**

**selectByValue:**  
*Select selectByValue =****new****Select(driver.findElement(By.id(“SelectID\_One”)));*  
*selectByValue.selectByValue(“greenvalue”);*

**SelectByVisibleText:**  
*Select selectByVisibleText =****new****Select (driver.findElement(By.id(“SelectID\_Two”)));*  
*selectByVisibleText.selectByVisibleText(“Lime”);*

**selectByIndex:**  
*Select selectByIndex =****new****Select(driver.findElement(By.id(“SelectID\_Three”)));*  
*selectByIndex.selectByIndex(2);*

**5. Different types of navigation commands**

*driver.navigate ().back ();*

*driver.navigate ().forward();*

*driver.navigate ().refresh();*

*driver.navigate ().to(“https://google.com”);*

**6. A hyper link using linkText**

*driver.findElement (By.linkText (“Google”)).click ();*

*driver.findElement (By.partialLinkText (“Goo”)).click ();*

**7.[handle frame in WebDriver](http://www.softwaretestinghelp.com/selenium-tutorial-18/" \o "Handling frames in Selenium)**

*driver.switchTo ().frame (“ID of the frame“);*

*driver.switchTo ().frame (driver.findElements (By.tagName (“iframe”).get(0));*

**Frame (index)**  
*driver.switchTo().frame(0);*

**Frame(Name of Frame)**  
*driver.switchTo().frame(“name of the frame”);*

*driver.switchTo().defaultContent();*

**8. findElement () and findElements()?**

*WebElement element =driver.findElements (By.xpath (“//div[@id=’example’]//ul//li”));*

*List <WebElement> elementList =driver.findElements (By.xpath (“//div[@id=’example’]//ul//li”));*

**9. Handle web based pop up**

*Alert alert = driver.switchTo().alert ();*

**10. Handle windows based pop up**

AutoIT, Robot class

**11. Assert title of the web page**

*driver.getTitle ().equals (“Title of the page”));*

**12. Mouse hover on a web element**

**13. Retrieve css properties**

*driver.findElement (By.id(“id“)).getCssValue(“name of css attribute”);*  
*driver.findElement(By.id(“id“)).getCssValue(“font-size”);*

**14. How to capture screenshot**

|  |  |
| --- | --- |
|  | public void test() throws IOException { |
|  | // Code to capture the screenshot | |

|  |  |  |
| --- | --- | --- |
|  | File scrFile = ((Takes Screenshot)driver).getScreenshotAs(OutputType.FILE); | |
|  | // Code to copy the screenshot in the desired location |

|  |
| --- |
| FileUtils.copyFile(scrFile, newFile("C:\\CaptureScreenshot\\google.jpg")); |

**14. Junit annotations**

**@Test/@Before/@After/@BeforeClass/@AfterClass/@Ignore**

**15. Annotations used in TestNG**

@Test, @BeforeSuite, @AfterSuite, @BeforeTest, @AfterTest, @BeforeClass, @AfterClass, @BeforeMethod, @AfterMethod.

**16. Read data from excel**

FileInputStream fis = new FileInputStream (“path of excel file”);

Workbook wb = WorkbookFactory.create (fis);

Sheet s = wb.getSheet (“sheetName”);

String value = s.getRow (rowNum).getCell (cellNum).getStringCellValue ();

**17. Verify if the checkbox/radio is checked or not**

*driver.findElements.by*.xpath ("xpath of the checkbox/radio button")).isSelected ();

**18. IE/chrome browser?**

System.setProperty (“webdriver.ie.driver”,”path of the iedriver.exe file ”);

System.setProperty (“webdriver.chrome.driver”,”path of the chromeDriver.exe file)

**19. Right click using WebDriver?**

Actions act = new Actions (driver); // where driver is WebDriver type

act.moveToElement (webElement).perform ();

act.contextClick ().perform ();

**20. Drag and drop using WebDriver**

FindElement (By.xpath(“ -----”)); //source ele which you want to drag

WebElement target =

driver.findElement (By.xpath(“ -----”)); //targetwhere you want to drop

Actions act = new Actions(driver);

WebElement source = driver.findElement (By.xpath (“ -----”)); //source ele which you want to drag

WebElement target = driver.findElement (By.xpath (“ -----”)); //target where you want to drop

act.dragAndDrop(source,target).perform();

**21. Upload a file?**

driver.findElement (By.xpath (“input field”)).sendKeys(“path of the file which u want to upload)

**22. Simulate browser back and forward?**

driver.navigate().back();

driver.navigate().forward();

23. Current page URL

driver.getCurrentUrl();

**24. Achieve synchronization in WebDriver**

implicit wait: driver.manage ().timeouts().implicitlyWait(10,TimeUnit.SECONDS);

**25. Get typed text from a textbox**

driver.findElement (By.xpath("xpath of box")). getAttribute("value"));

**26. Different exceptions you got when working with WebDriver**

ElementNotVisibleException, ElementNotSelectableException, NoAlertPresentException, NoSuchAttributeException,

NoSuchWindowException, TimeoutException, WebDriverException etc.

**27. Clear the contents of a textbox**

driver.findElement (By.xpath ("xpath of box")).clear ();

**28. Prerequisites to run selenium webdriver**

JDK, Eclipse, WebDriver (selenium standalone jar file), browser, application to be tested.

**29. Invoke an application in webdriver**

driver.get (“url”); or

driver.navigate (). to(“url”);

**30. Get the number of frames on a page**

Path ("//iframe"));int numOfFrames =frameList.size();

List &lt;WebElement&gt; framesList = driver.findElements(By.xpath("//iframe"));

int numOfFrames = frameList.size();

**31. Simulate scroll down action**

JavascriptExecutor jsx =

(JavascriptExecutor) driv

**32. The package which is to be imported while working with WebDriver**

org.openqa.selenium

**33. An element is visible**

driver.findElement (By.xpath ("xpath of elemnt")). IsDisplayed ();

**34. A button is enabled on the page**

driver.findElement (By.xpath("xpath of button")).isEnabled();

**35. Text is highlighted on the page**

getCssValue ("color"); String backcolor =

String color = driver.findElement (By.xpath ("//a[text()='Shop']")).getCssValue("color");

String backcolor = driver.findElement (By.xpath ("//a[text()='Shop']")).getCssValue ("background-color");

System.out.println (color);

System.out.println (backcolor);

**36. Checkbox or radio button is selected**

driver.findElement (By.xpath ("xpath of button")).isSelected ();

**37. Get the title of the page?**

driver.getTitle ();

**38. Get the width of the textbox**

driver.findElement (By.xpath (“xpath of textbox”)).getSize ().getWidth ();

driver.findElement (By.xpath (“xpath of textbox”)).getSize ().getHeight ();

**39. Enter text without using sendKeys**

driver.executeScript ("arguments [0].setAttribute (arguments [1], arguments [2])", element, attributeName, value);

**40. “Assert.assertEquals ()” function fails automatically it has to take screenshot**

EventFiringWebDriver eDriver=new EventFiringWebDriver (driver);

File srcFile = eDriver.getScreenshotAs (OutputType.FILE);

FileUtils.copyFile (srcFile, new File (imgPath));

**41. Handle https website**

Public static void main (String [] args){

FirefoxProfile profile =new FirefoxProfile ();

profile.setAcceptUntrustedCertificates (false);

WebDriver driver= new FirefoxDriver (profile);

**42. Headless browser.**

HtmlUnitDriver driver = new HtmlUnitDriver (true);

**43. Take screen shot without using EventFiringWebDriver**

FileUtils.copyFile(srcFile, new File(“folder name where u want to copy/file\_name.png”));

File srcFile = ((TakeScreenshot) driver).getScreenshotAs(OutputType.FILE);

**44. Switch back from a frame**

driver.switchTo().defaultContent();

**45. Type text in a new line inside a text area**

jwaye\_bLeinleem2.e”n); t.sendKeys (“Sanjay\_Line1.\n Sanjay\_Line2.”);

**46. Double click using WebDriver**

doubleClick(webelement);

Syntax- Actions act = new Actions(driver);

act.doubleClick(webelement);

**47. Press Shift+Tab**

sendKeys(press);

String press = Keys.chord(Keys.SHIFT,Keys.ENTER);

webelement.sendKeys (press);

**48. Check all checkboxes:**

driver.findElements(By.xpath(“//htmltag[@attbute='checkbox']”));

**49. Count the number of links in a page**

gName(“a”));System.out.println(link.size()); // this will print the number of links in a page.

Syntax- int count = 0;

List&lt;webElement&gt; link = driver.findElements(By.tagName(“a”));

**50. What are the different access specifiers in Java?**

Private, default, protected and public.

**51. oops concepts**

Encapsulation,/ Abstraction,/Polymorphism,/Inheritance