1. Explain the Selenium Architecture.
2. Difference between Selenium-IDE & Selenium RC , WebDriver.
3. Difference between get(), navigate().to()
4. WEbdriver is an “interface” or Class ?
5. Difference between quit() & close()
6. How to maximize & minimize the browser
7. What is Super interface for WebDriver
8. What is WebElement & explain all the Mtds available in WebElement
9. How to resize the browser?
10. How many locator are available in Webdriver , & which locator is preferred
11. Difference between Absolute xpath nd Relative Xpath
12. Difference between findelement & findelements
13. Difference between / and //
14. How To Position the Browser?
15. Difference b/w cssSelector and Xpath?

Question on WebDriver wait statement

1. What is Synchronization?
2. How to handle Synchronization wait available in Webdriver
3. Which wait statement will be used to wait till page load.
4. Difference between thread wait , implicitly wait , explicitly wait
5. What is fluent wait/custom wait

Question DropDown & keyboard & mouse operation

1. How to handle dropdown
2. List out all mtds available in Select class
3. How to capture all the value from the dropdown
4. How to take mouse over operation on the element
5. How to perform keyboard operation
6. How to perform “control+c”
7. Difference between build() & perform()
8. How to perform dragAndDrop Operation
9. How to perform rightClick operation
10. How to double click on an element?

PopUps

1. How to work with new Tab, new Browse-window
2. How to work with new Tab, new Browse-window with our GetWindowHandles() mtd
3. How to handle Alert popup
4. How to work Calender POP-up
5. How to authentication popup
6. How to handle File Upload Pop-up
7. How to handle Hidden Division PopUp
8. How to handle Browser Native PopUp

Question Frame Handle

1. How to work with frame-Window.
2. How to Work with nested Frame
3. How to work with multiple frame
4. How many ways to work with frame
5. How to work frame , when frame does not have id & @name attribute.

Data driven test

1. What is data driven test
2. Why data driven testing
3. Advantages of data driven testing
4. How to read data from excel
5. How to read data from properties file

POM

1. What is POM?
2. Why POM?
3. Rules of the POM class?
4. Explain StaleElementException?
5. Explain Different B/w @FindBy,@FindBys and @FindAll?
6. Advantages and DisAdvantages of POM?

TestNG

1. What is TestNG , why it is required
2. Why testNG , why not Junit ?
3. What is Annotation, explain all the annotations?
4. What is batch execution,& how to achieve batch execution
5. Write Syntax of testng.Xml
6. What is parallel execution, & how to achieve parallel execution
7. How to disable the testNg test scripts, when one class contains multiple @test method
8. What is ASSERTION, and Types Assertion?
9. How to skip second test , when first test is failed ?

1. Explain selenium Webdriver architechture.
3. How many locators are there?which one is most preferable.
4. Methods of Webdriver.
5. Methods of WebElement.
6. How do you find an element?
7. Return type of findElement and  findElements
8. Advantages and disadvantages of automation
9. What is selenium RC and selenium IDE
10. What is current version of selenium?
11. Difference between absolute and relative xPath.

12. What is synchronization in selenium?
13. How to handle dropdowns?
14. Different types of waits in selenium?
15. How to handle multiple tabs in browser?
17. How to handle frames?
18. How to handle alert and confirmation popup?
19. How to handle file download and file upload popup?
20. How to handle window popup?
21. How to resize a browser?
22. What is actions class? What are operations we can perform by using actions class?
23. How to take screenshot of an application?

24. What is JavaScriptExecutor?
25. How to scroll to particular element?
26. How to read data from excel?
27. How to write data to excel?
28. What is TestNg ? Why is it used? What are the annotations of TestNg
29. Can we generate HTML report in eclipse?
30. Can we run group of test cases using TestNG?
31. Can you write a sample  for parallel execution  in TestNG.xml file
32. Diff b/w Assert and verify
33. Difference between @Beforemethod and @Beforetest?
34. Have you run tests in parallel?

35. How and why will you group your Testcases using TestNG?
36. How can i do priority based testing using webDriver
37. How do u execute testcases using testng
38. How do u run batch execution, which one ur using for that
39. How do you execute two or 5 testcases alone in testNGsuite.
41. How do you use load elements through properties file and run using TestNG
42. How does the compilation happen for the TestNG classes?
43. How to do execution of second method after first method  execution only without giving priority
44. How to execute scripts parallel using testng?
45. How to fail the TC in Test Automation report, though the TC is passed means it should be failed in report?

How to generate reports

49. How will you prioritise test methods?
50. What are the different attributes for @Test annotation?
51. What are the parameters used by @Test?
52. What is @test annotation?
53. What is advantages of using testng, why can't we run selenium code directly?
59. What annotations u have worked on.
60. What is the difference between testing and junit?
61. What is the skeleton of testng.xml? What all does/can it contain?
65. What is POM? Explain about POM.
66. What do you mean by findby annotation
68. How you are declaring the webelement in Page Object Model(POM) ?
72. what is pagefactory and why we use page factory
73. what is pagefactory designed technique?
74. Where u have used constructor in Selenium?

| close() | quit() |
| --- | --- |
| Only closes Parent Window | Closes both parent & child Windows |
| It will not stop the Server | It will Stop the Server |
| Return type is void | Return type is void |
| It should be the last line of code | It should be the last line of code |

| get() | navigate() |
| --- | --- |
| It is used to open an application/ web page | It is used to open an application/ web page |
| It will wait until the web page is fully loaded | It will not wait until the web page is loaded. |
| Here, we can only open the application | Here, we can open and perform other actions like forward, back and refresh |
| Return type is void | Return type is Navigation |

| getWindowHandle() | getWindowHandles() |
| --- | --- |
| It is used to capture the window id of parent window page | It is used to capture the all window ids of web page (both parent & child windows) |
| Return type is String | Return type is Set<String> |

| Absolute Path | Relative Path |
|---|---|
| Have to traverse from root tag to desired element | Can directly jump to required element |
| It starts with "**/**". | It starts with "**//**". |
| slower | faster |
| Long path | Optimized path |
| We can use only tag name | We can use attribute name, attribute value |

| findElement() | findElements() |
|---|---|
| Locate one element at a time | Locate multiple elements at a time |
| It returns first matching element | It returns all the matching records |
| Return type is WebElement | Return type is List<WebElement> |
| If element not found, we get NoSuchElementException. | If elements not found, we get empty List or List with size 0. |
| It takes By as an argument | It takes By as an argument |

| cssSelector | xpath |
| --- | --- |
| We cannot use visible text | We can use visible text using text() |
| It is faster than xpath | It is comparatively slow |
| It is unidirectional | It is multi directional |
| It uses CSS-like Syntax | It uses Path-like Syntax |
| Syntax:<br>tagname[AN='AV'] | Syntax:<br>//tag-name[@attribute-name='attribute-value']<br>OR<br>//tag-name[text()='text-value'] |
| Concept of Traversing is not there ( "/.." ) | Concept of Traversing is there ( "/.." ) |
| Cannot use Logical Operators (and, or, not) | Can use Logical Operators (and, or, not) |
| We cannot use Indexing | Indexing can be used |

## 4. Fluent Wait :

- Fluent wait is same as Explicit wait.
- Fluent wait statement should be specified every time whenever synchronization is needed
- Fluent Wait is used to customize the polling period.
- It ignores any exception that might occur before timeouts.
- It is not widely used in Industry.

| Implicit Wait | Explicit Wait |
|---|---|
| It Works for - findElement() and findElements() | It works for the given condition |
| If the element is not present, we get- NoSuchElementException or Empty List. | If the condition is not satisfied, we get TimeOutException |

| Hard Assert | Soft Assert |
| --- | --- |
| In case of failure, test cases will be terminated abruptly. | It will not hard stop the execution. It will continue the entire test case execution even when there is a failure. |
| No need to call any methods to show assertion error. | We need to call assertAll() to show assertion failure. |
| All the methods are static methods. | All the methods are non static methods. |
| It can be used for critical scenarios. | It can be used for non-critical scenarios. |

## 4. Notification Popups

**Characteristics**:-

1) We cannot move this popup.
2) We cannot inspect this popup.
3) This popup has an allow and block button.
4) It will be displayed below the address bar in the beginning.

**To Handle Notification Popups:-**

Handling is done by Using Robot Class.

**To Avoid Notification Popups:-**

In order to avoid this popup, we can change the settings of the browser. So that notification popup will not be displayed.

To change the settings of the browser, we use **addArguments()** of **ChromeOptions** class.

How to Avoid:-

1. Create an object of ChromeOptions and store it in a reference variable.
2. Using this reference variable, call the method addArguments() and pass Chromium commands.
3. While launching the browser, pass the reference variable of ChromeOptions in the constructor call.

**Note:-**

chromeOptions is for chrome Browser.
For edge  edgeOptions
For firefox  firefoxOptions, etc.

**Syntax:-**

```
ChromeOptions settings= new ChromeOptions();
settings.addArguments("- -disable-notifications");
        OR
settings.addArguments("- -incognito");
```