

Top 100 Selenium Interview Questions & Answers

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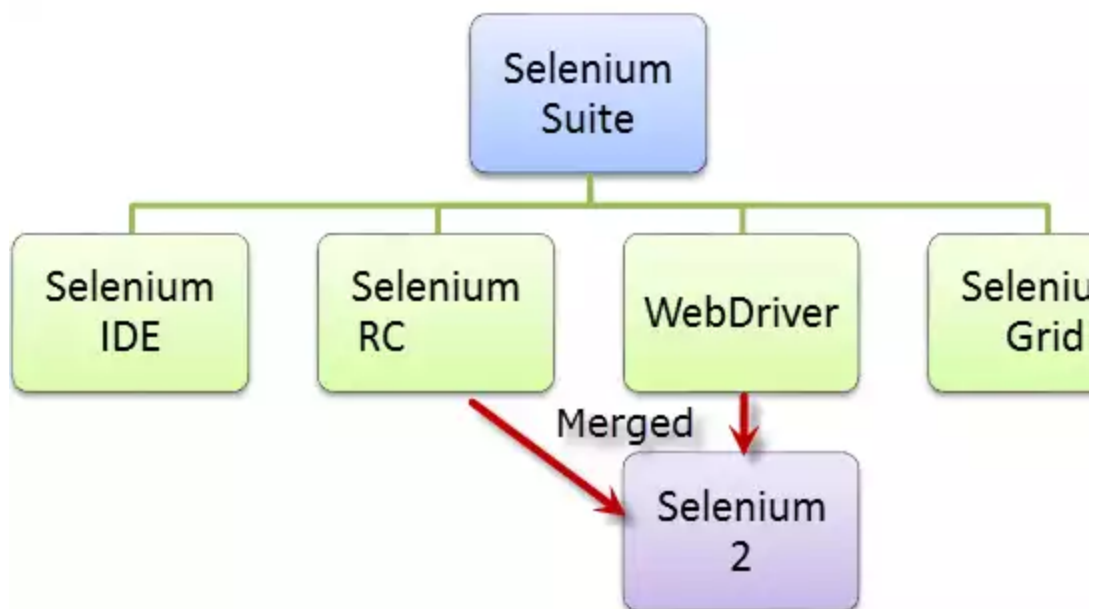
1) What is Selenium and what is composed of

Selenium is a suite of tools for automated web testing. It is composed of

- **Selenium IDE (Integrated Development Environment)**: A tool for recording and playing back. It is a Firefox plugin.
- **WebDriver and RC**: It provides the APIs for a variety of languages like Java, .NET, PHP, etc. Webdriver and RC work.
- **Grid**: With the help of Grid you can distribute tests on multiple machines so that testing can be done in parallel which helps in cutting down the time required for running in browser test suites.

2) What is Selenium 2.0 ?

Web testing tools Selenium RC and WebDriver are consolidated in a single tool in Selenium 2.0.



3) Mention what is Selenium 3.0?

Selenium 3.0 is the latest version of Selenium. It has released 2 beta versions of Selenium 3.0 below changes:

Here are few new features added to Selenium 3.0

Beta 1 updates

- Minimum java version is now 8+

- It will support for Firefox Via Mozilla's geckodriver

- Support for Edge is provided by MS
- It now supports Safari on MacOS via Apple's own Safari driver

Beta 2 updates (Only for Java)

- System property webdriver.firefox.marionette now for marionette or legacy firefox driver mode, ignoring any Capability

- Grid fixes NPE's on registration when -browser not spe

- Update GeckoDriver -port argument in all bindings

4) How will you find an element using Selenium?

In Selenium every object or control in a web page is referred as an elements, there are different ways to find an element in a web page they are

- ID
- Name
- Tag
- Attribute
- CSS
- Linktext
- PartialLink Text
- Xpath etc

5) List out the test types that are supported by Selenium?

For web based application testing selenium can be used

The test types can be supported are

a) Functional

b) Regression

For post release validation with continuous integration automation tool could be used

a) Jenkins

b) Hudson

c) Quick Build

6) Explain what is assertion in Selenium and what are the types of assertion?

Assertion is used as a verification point. It verifies that the state of the application conform expected. The types of assertion are “assert” , “verify” and “waitFor”.

7) Mention what is the use of X-path?

X-Path is used to find the WebElement in web pages. It is also useful in identifying the dynamic elements.

8) Explain the difference between single and double slash in X-path? Single slash '/'

- Single slash (/) start selection from the document node
- It allows you to create 'absolute' path expressions

Double Slash '//'

- Double slash (//) start selection matching anywhere in the document
- It enables to create 'relative' path expressions

9) List out the technical challenges with Selenium? Technical challenges with Selenium

- Selenium supports only web based applications
- It does not support the Bitmap comparison
- For any reporting related capabilities have to depend on third party tools
- No vendor support for tool compared to commercial tools like HP UFT
- As there is no object repository concept in Selenium, maintainability of objects becomes difficult

10) What is the difference between type keys and type commands ?

TypeKeys() will trigger JavaScript event in most of the cases whereas .type() won't. Type key attribute using JavaScript whereas .typekeys() emulates like actual user typing

11) What is the difference between verify and assert commands?

Assert: Assert allows to check whether an element is on the page or not. The test will stop if the asserted element is not available. In other words, the test will be terminated at the point where the element is not found.

Verify: Verify command will check whether the element is on the page, if it is not then the test will continue executing. In verification, all the commands are going to run guaranteed even if any of the test fails.

12) What is JUnit Annotations and what are different types of annotations which are used in JUnit?

In JAVA a special form of syntactic meta-data can be added to Java source code, this is known as annotation. Variables, parameters, packages, methods and classes are annotated some of the JUnit annotations which are useful are

- Test
- Before

- After
- Ignore
- BeforeClass
- AfterClass
- RunWith

13) While using click command can you use screen coordinate?

To click on specific part of element, you would need to use clickAt command. ClickAt command takes element locator and x, y co-ordinates as arguments- clickAt (locator, cordString)

14) What are the advantages of Selenium?

- It supports C#, PHP, Java, Perl, Python
- It supports different OS like Windows, Linux and Mac OS
- It has got powerful methods to locate elements (Xpath, DOM , CSS)
- It has highly developer community supported by Google

15) Why testers should opt for Selenium and not QTP? Selenium is more popular than QTP

- Selenium is an open source whereas QTP is a commercial tool
- Selenium is used specially for testing web based applications while QTP can be used for testing desktop application also
- Selenium supports Firefox, IE, Opera, Safari on operating systems like Windows, Mac, Linux while QTP is limited to Internet Explorer on Windows.
- Selenium supports many programming languages like Ruby, Perl, Python whereas QTP supports only Visual Basic script

16) What are the four parameter you have to pass in Selenium? Four parameters that you have to pass in Selenium are

- Host
- Port Number
- Browser
- URL

17) What is the difference between setSpeed() and sleep() methods?

Both will delay the speed of execution.

Thread.sleep () : It will stop the current (java) thread for the specified period of time. Its declaration is

- It takes a single argument in integer format

Ex: thread.sleep(2000)- It will wait for 2 seconds

- It waits only once at the command given at sleep

SetSpeed () : For specific amount of time it will stop the execution for every selenium command

- It takes a single argument in integer format

Ex: `selenium.setSpeed("2000")`- It will wait for 2 seconds

- Runs each command after `setSpeed` delay by the number of milliseconds mentioned in :

This command is useful for demonstration purpose or if you are using a slow web application

18) What is same origin policy? How you can avoid same origin policy?

The **"Same Origin Policy"** is introduced for security reason, and it ensures that content of a website can only be accessible by a script from another site. As per the policy, any code loaded within the browser must operate within that website's domain.

To avoid "Same Origin Policy" proxy injection method is used, in proxy injection mode the Selenium acts as a client configured **HTTP proxy**, which sits between the browser and application under test. The browser then connects to the AUT under a fictional URL.

19) What is heightened privileges browsers?

The purpose of heightened privileges is similar to Proxy Injection, allows websites to do something that is not commonly permitted. The key difference is that the browsers are launched in a special mode with elevated privileges. By using these browser mode, Selenium core can open the AUT directly and also bypass the content without passing the whole AUT through the Selenium RC server.

20) How you can use "submit" a form using Selenium ?

You can use "submit" method on element to submit form-

```
element.submit () ;
```

Alternatively you can use click method on the element which does form submission

21) What are the features of TestNG and list some of the functionality in TestNG which are most effective?

TestNG is a testing framework based on JUnit and NUnit to simplify a broad range of testing from unit testing to integration testing. And the functionality which makes it efficient testing framework

- Support for annotations
- Support for data-driven testing
- Flexible test configuration
- Ability to re-execute failed test cases

22) Mention what is the difference between Implicit wait and Explicit wait?

Implicit Wait: Sets a timeout for all successive Web Element searches. For the specified amount of time, Selenium will keep trying to find the element again and again before throwing a `NoSuchElementException`. It waits until the element is found or the timeout expires.

Explicit Wait : It is a one-timer, used for a particular search.

23) Which attribute you should consider throughout the script in frame for “if no frame name”?

You can use.....`driver.findElements(By.xpath("//iframe"))`....

This will return list of frames.

You will need to switch to each and every frame and search for locator which we want.

Then break the loop

24) Explain what is the difference between find elements () and find element () ?

find element ():

It finds the first element within the current page using the given “locating mechanism”. It returns a WebElement

findElements () : Using the given “locating mechanism” find all the elements within the current page and return a list of web elements.

25) Explain what are the JUnits annotation linked with Selenium?

The JUnits annotation linked with Selenium are

- @Before public void method() – It will perform the method () before each test, this method runs before each test
- @Test public void method() – Annotations @Test identifies that this method is a test method
- @After public void method()- To execute a method after this annotation is used, test method runs after each test with test@Before

26) Explain what is Datadriven framework and Keyword driven?

Datadriven framework: In this framework, the test data is separated and kept outside the test case logic resides in Test Scripts. Test data is read from the external files (Excel Files) and the variables inside the Test Script. Variables are used for both for input values and for verification.

Keyworddriven framework: The keyword driven frameworks requires the development of keywords, independent of the test automation. In a keyword driven test, the functionality of the application under test is documented in a table as well as step by step instructions for each test.

27) Explain how you can login into any site if it's showing any authentication popup for username?

Pass the username and password with url

- Syntax-`http://username:password@url`
- ex- `http://creyate:tom@www.gmail.com`

28) Explain how to assert text of webpage using selenium 2.0 ?

```
WebElement el = driver.findElement(By.id("ElementID"))
```

```
//get test from element and stored in text variable
```

```
String text = el.getText();
```

```
//assert text from expected
```

```
Assert.assertEquals("Element Text", text);
```

29) Explain what is the difference between Borland Silk and Selenium?

Silk Test Tool	Selenium Test Tool
<ul style="list-style-type: none">Borland Silk test is not a free testing tool	<ul style="list-style-type: none">Selenium is completely free test automation tool
<ul style="list-style-type: none">Silk test supports only Internet Explorer and Firefox	<ul style="list-style-type: none">Selenium supports many browsers like Internet Explorer, Firefox, Safari, Opera and so on
<ul style="list-style-type: none">Silk test uses test scripting language	<ul style="list-style-type: none">Selenium suite has the flexibility to use many languages like Java, Ruby, Perl and so on
<ul style="list-style-type: none">Silk test can be used for client server applications	<ul style="list-style-type: none">Selenium can be used for only web applications

30) What is Object Repository ?

An object repository is an essential entity in any UI automations which allows a tester to store object identifiers. These identifiers will be used in the scripts in one or more centralized locations rather than scattered all over the application.

31) Explain how Selenium Grid works?

Selenium Grid sends the tests to the hub. These tests are redirected to Selenium WebDriver, which then interacts with the browser and runs the test. With an entire test suite, it allows for running tests in parallel.

32) Can we use Selenium grid for performance testing?

Yes. But not as effectively as a dedicated performance testing tool like Loadrunner.

33) List the advantages of WebDriver over Selenium Server?

- If you are using Selenium-WebDriver, you don't need the Selenium Server as it is using the same technology.
- Selenium Server provides Selenium RC functionality which is used for Selenium 1.0 backward compatibility.

- Selenium Web driver makes direct calls to browser using each browser's native support for while Selenium RC requires selenium server to inject Javascript into the browser

34) Mention what are the capabilities of Selenium WebDriver or Selenium 2.0 ?

WebDriver should be used when requiring improvement support for

- Handling multiple frames, pop ups , multiple browser windows and alerts
- Page navigation and drag & drop
- Ajax based UI elements
- Multi browser testing including improved functionality for browser not well supported by

35) While injecting capabilities in webdriver to perform tests on a browser which is r webdriver what is the limitation that one can come across?

Major limitation of injecting capabilities is that “findElement” command may not work as ex

36) Explain how you can find broken images in a page using Selenium Web driver ?

To find the broken images in a page using Selenium web driver is

- Get Xpath and get all the links in the page using tag name
- In the page click on each and every link
- Look for 404/500 in the target page title

37) Explain how you can handle colors in web driver?

To handle colors in web driver you can use

Use getCssValue(arg0) function to get the colors by sending 'color' string as an argument

38) Using web driver how you can store a value which is text box?

You can use following command to store a value which is text box using web driver

```
driver.findElement(By.id("your Textbox")).sendKeys("your keyword");
```

39) Explain how you can switch between frames?

To switch between frames webdrivers [**driver.switchTo().frame()**] method takes one of the arguments

- A number: It selects the number by its (zero-based) index
- A number or ID: Select a frame by its name or ID
- Previously found WebElement: Using its previously located WebElement select a frame

40) Mention 5 different exceptions you had in Selenium web driver?

The 5 different exceptions you had in Selenium web drivers are

- WebDriverException

- NoAlertPresentException
- NoSuchWindowException
- NoSuchElementException
- TimeoutException

41) Explain using Webdriver how you can perform double click ?

You can perform double click by using

- **Syntax- Actions act = new Actions (driver);**
- **act.doubleClick(webelement);**

42) How will you use Selenium to upload a file ?

You can use “type” command to type in a file input box of upload file. Then, you have to use JAVA to make file upload work.

43) Which web driver implementation is fastest?

HTMLUnit Driver implementation is fastest, HTMLUnitDriver does not execute tests on browser request, which is far quicker than launching a browser and executing tests

44) Explain how you can handle frames using Selenium 2.0 ?

To bring control on HTML frame you can use “SwitchTo” frame method-

```
driver.switchTo().frame("frameName");
```

To specify a frame you can use index number

```
driver.switchTo().frame("parentFrame.4.frameName");
```

This would bring control on frame named- “frameName” of the 4th sub frame names “parentFrame”

45) What is the difference between getWindowHandles() and getWindowHandle() ?

getWindowHandles(): It is used to get the address of all the open browser and its return type is Set

getWindowHandle(): It is used to get the address of the current browser where the control is. It returns a single string

46) Explain how you can switch back from a frame?

To switch back from a frame use method defaultContent()

Syntax-driver.switchTo().defaultContent();

47) List out different types of locators?

Different types of locators are



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- By.id()
- By.name()
- By.tagName()
- By.className()
- By.linkText()
- By.partialLinkText()
- By.xpath
- By.cssSelector()

48) What is the command that is used in order to display the values of a variable into console or log?

- In order to display a constant string, command can be used is echo <constant string>
- If order to display the value of a variable you can use command like echo \${variable name}

Above is using PHP. If you are using Java, replace echo with System.out.println

49) Explain how you can use recovery scenario with Selenium?

Recovery scenarios depends upon the programming language you use. If you are using Java exception handling to overcome same. By using "Try Catch Block" within your Selenium WebDriver

50) Explain how to iterate through options in test script?

To iterate through options in test script you can loop features of the programming language. type different test data in a text box you can use "for" loop in Java

```
// test data collection in an array
```

```
String[] testData = { "test1" , "test2" , "test3" } ;
```

```
// iterate through each test data
```

```
For (String s: testData) { selenium.type ( "elementLocator", testData) ; }
```

51) How can you prepare customized html report using TestNG in hybrid framework ?

There are three ways

- JUnit: With the help of ANT
- TestNG: Using inbuilt default.html to get the HTML report. Also XST reports from ANT, Se combinations
- Using our own customized reports using XSL jar for converting XML content to HTML

52) From your test script how you can create html test report?

To create html test report there are three ways

- TestNG: Using inbuilt default.html to get the HTML report. Also XLST reports from ANT, 5 combination
- JUnit: With the help of ANT
- Using our own customized reports using XSL jar for converting XML content to HTML

53) Explain how you can insert a break point in Selenium IDE ?

In Selenium IDE to insert a break point

- Select “Toggle break point” by right click on the command in Selenium IDE
- Press “B” on the keyboard and select the command in Selenium IDE
- Multiple break points can be set in Selenium IDE

54) Explain in Selenium IDE how can you debug the tests?

- Insert a break point from the location from where you want to execute test step by step
- Run the test case
- At the given break point execution will be paused
- To continue with the next statement click on the blue button
- Click on the “Run” button to continue executing all the commands at a time

55) What is Selenese and what are the types of Selenese ?

Selenese is a selenium set of command which are used for running the test

There are three types of Selenese

- Actions: It is used for performing the operations and interactions with the target elemen
- Assertions: It is used as a check points
- Accessors: It is used for storing the values in a variable

56) Explain what are the limitations of Selenium IDE?

The limitations of Selenium IDE

- Exceptional handling is not present
- Selenium IDE uses only HTML languages
- External databases reading is not possible with IDE

- Reading from the external files like .txt, .xls is not possible
- Conditional or branching statements execution like if,else, select statements is not possible

57) What are the two modes of views in Selenium IDE ?

Either Selenium IDE can be opened as a pop up window or in side bar

58) In selenium IDE what are the element locators that can be used to locate elements?

In selenium there are mainly 4 locators that are used

- X-path locators
- Css locators
- Html id
- Html name

59) In Selenium IDE how you can generate random numbers and dates for test data ?

In Selenium IDE you can generate random numbers by using JavaScript

type

css=input#s

javascript{Math.random()}

And for

type

css=input#s

javascript{new Date()}

60) How you can convert any Selenium IDE tests from Selenese to another language?

You can use the format option of Selenium IDE to convert tests into another programming language

61) Using Selenium IDE is it possible to get data from a particular html table cell ?

You can use the "storeTable" command

Example store text from cell 0,2 from an html table

storeTable

Css=#table 0.2

textFromCell

62) Explain what can cause a Selenium IDE test to fail?

- When a locator has changed and Selenium IDE cannot locate the element
- When element Selenium IDE waiting to access did not appear on the web page and the o
- When element Selenium IDE was trying to access was not created

63) Explain how you can debug the tests in Selenium IDE ?

- Insert a break point from the location where you want to execute step by step
- Run the test case
- At the given break point execution will be paused
- To continues with the next step click on the Blue button
- To run commands at a time click on run button

64) From Selenium IDE how you can execute a single line?

From Selenium IDE single line command can be executed in two ways

- Select "Execute this command" by right clicking on the command in Selenium IDE
- Press "X" key on the keyboard after selecting the command in Selenium IDE

65) In which format does source view shows your script in Selenium IDE ?

In Selenium IDE source view shows your script in XML format

66) Explain how you can insert a start point in Selenium IDE?

In two ways selenium IDE can be set

- Press "S" key on the keyboard and select the command in Selenium IDE
- In Selenium IDE right click on the command and the select "Set / Clear Start Point"

67) What if you have written your own element locator and how would you test it?

To test the locator one can use "Find Button" of Selenium IDE, as you click on it, you would element being highlighted provided your element locator is right or or else an error messa

68) What is regular expressions? How you can use regular expressions in Selenium ?

A regular expression is a special text string used for describing a search pattern. In Selenium expression can be used with the keyword- **regexp:** as a prefix to the value and patterns need for the expected values.

69) What are core extension ?

If you want to "extend" the default functionality provided by Selenium Function Library , you Extension. They are also called "User Extension". You can even download ready-made Core by other Selenium enthusiasts.

70) How will you handle working with multiple windows in Selenium ?

We can use the command **selectWindow** to switch between windows. This command uses to identify which window to switch to.

71) How will you verify the specific position of an web element

You can use `verifyElementPositionLeft` & `verifyElementPositionTop`. It does a pixel comparison of the element from the Left and Top of page respectively

72) How can you retrieve the message in an alert box ?

You can use the `storeAlert` command which will fetch the message of the alert pop up and store it in a variable.

73) What is selenium RC (Remote Control)?

Selenium IDE has limitations in terms of browser support and language support. By using Selenium RC, these limitations can be diminished.

- On different platforms and different web browser for automating web application, Selenium RC supports languages like Java, C#, Perl, Python
- Selenium RC is a Java based and using any language it can interact with the web application
- Using server you can bypass the restriction and run your automation script running against any application

74) Why Selenium RC is used?

Selenium IDE does not directly support many functions like condition statements, Iteration, reporting of test results, unexpected error handling and so on as IDE supports only HTML. To overcome such issues Selenium RC is used. It supports the language like Perl, Ruby, Python, PHP using which we can write the program to achieve the IDE issues.

75) Explain what is the main difference between web-driver and RC ?

The main difference between Selenium RC and Webdriver is that, Selenium RC injects JavaScript into browsers when the page is loaded. On the other hand, Selenium Webdriver drives the browser through a built-in support.

76) What are the advantages of RC?

Advantages of RC are

- Can read or write data from/ to .xls, .txt, etc
- It can handle dynamic objects and Ajax based UI elements
- Loops and conditions can be used for better performance and flexibility
- Support many Programming languages and Operating Systems
- For any JavaScript enabled browser Selenium RC can be used

77) Explain what is framework and what are the frameworks available in RC?

A collection of libraries and classes is known as Framework and they are helpful when testing test cases. NUnit, JUnit, TestNG, Bromine, RSpec, unittest are some of the frameworks available.

78) How can we handle pop-ups in RC ?

To handle pop-ups in RC, using selectWindow method, pop-up window will be selected and the method will let the control from current window to pop-up windows and perform actions on it.

79) What are the technical limitations while using Selenium RC?

Apart from "same origin policy" restriction from js, Selenium is also restricted from exercising outside browser.

80) Can we use Selenium RC to drive tests on two different browsers on one operating system?

Yes, it is possible when you are not using a Java testing framework. Instead of using Java test, you are using a Java client driver of Selenium. Then TestNG allows you to do this. By using "parallel" you can set tests to be executed in parallel and can define two different tests, each using different drivers.

81) Why to use TestNG with Selenium RC ?

If you want full automation against different server and client platforms, you need a way to run tests from a command line process, reports that tell you what happened and flexibility in how you run your suites. TestNG gives that flexibility.

82) Explain how you can capture server side log Selenium Server?

To capture server side log in Selenium Server, you can use the command

- `java -jar .jar -log selenium.log`

83) Other than the default port 4444 how you can run Selenium Server?

You can run Selenium server on `java -jar selenium-server.jar -port` other than its default port.

84) How Selenium grid hub keeps in touch with RC slave machine?

At predefined time Selenium grid hub keeps polling all RC slaves to make sure it is available. The deciding parameter is called "remoteControlPollingIntervalSeconds" and is defined in "grid_configuration.yml" file.

85) Using Selenium how can you handle network latency ?

To handle network latency you can use `driver.manage().pageLoadTimeout()` for network latency.

86) To enter values into text boxes what is the command that can be used?

To enter values into text boxes we can use the command `sendKeys()`.

87) How do you identify an object using Selenium?

To identify an object using Selenium you can use

`isElementPresent(String locator)`

`isElementPresent` takes a locator as the argument and if found returns a Boolean

88) In Selenium what are Breakpoints and Startpoints?

- **Breakpoints:** When you implement a breakpoint in your code, the execution will stop right there, allowing you to verify that your code is working as expected.
- **Startpoints** Startpoint indicates the point from where the execution should begin. Startpoint is used when you want to run the testscript from the middle of the code or a breakpoint.

89) Mention why to choose Python over Java in Selenium?

Few points that favor Python over Java to use with Selenium is,

- Java programs tend to run slower compared to Python programs.
- Java uses traditional braces to start and ends blocks, while Python uses indentation.
- Java employs static typing, while Python is dynamically typed.
- Python is simpler and more compact compared to Java.

90) Mention what are the challenges in Handling Ajax Call in Selenium Webdriver?

The challenges faced in Handling Ajax Call in Selenium Webdriver are

- Using "pause" command for handling Ajax call is not completely reliable. Long pause time is unacceptably slow and increases the testing time. Instead, "waitforcondition" will be more reliable for Ajax applications.
- It is difficult to assess the risk associated with particular Ajax applications
- Given full freedom to developers to modify Ajax application makes the testing process difficult
- Creating automated test request may be difficult for testing tools as such AJAX applications use different encoding or serialization technique to submit POST data.

91) Mention what is IntelliJ?

IntelliJ is an IDE that helps you to write better and faster code for Selenium. IntelliJ can be used with Java, Python, and Eclipse.

92) Mention in what ways you can customize TestNG report?

You can customize TestNG report in two ways,

- Using ITestListener Interface
- Using IReporter Interface

93) To generate pdf reports mention what Java API is required?

To generate pdf reports, you need Java API IText.

94) Mention what is Listeners in Selenium WebDriver?

In Selenium WebDriver, Listeners "listen" to the event defined in the selenium script and allows customizing TestNG reports or logs. There are two main listeners i.e. WebDriver Listeners.

95) Mention what are the types of Listeners in TestNG?

The types of Listeners in TestNG are,

- IAnnotationTransformer
- IAnnotationTransformer2
- IConfigurable
- IConfigurationListener
- IExecutionListener
- IHookable
- IInvokedMethodListener
- IInvokedMethodListener2
- IMethodInterceptor
- IReporter
- ISuiteListener
- ITestListener

96) Mention what is desired capability? How is it useful in terms of Selenium?

The desired capability is a series of key/value pairs that stores the browser properties like browser version, the path of the browser driver in the system, etc. to determine the behavior at run time.

For Selenium,

- It can be used to configure the driver instance of Selenium WebDriver.
- When you want to run the test cases on a different browser with different operating system.

97) For Database Testing in Selenium Webdriver what API is required?

For Database Testing in Selenium Webdriver, you need JDBC (Java Database Connectivity) API to execute SQL statements.

98) Mention when to use AutoIT?

Selenium is designed to automate web-based applications on different browsers. But to handle windows and non-HTML popups in the application you need AutoIT.

99) Mention why do you need Session Handling while working with Selenium?

While working with Selenium, you need Session Handling. This is because, during test execution, WebDriver has to interact with the browser all the time to execute given commands. At the

is also possible that, before current execution completes, someone else starts execution of the same machine and in the same type of browser. So to avoid such situation you need Selenium

100) Mention what are the advantages of Using Git Hub For Selenium?

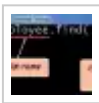
The advantages of Using Git Hub for Selenium are

- Multiple people when they work on the same project they can update project details and members simultaneously.
- Jenkins can help you to build the project from the remote repository regularly. This helps of failed builds.

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