

Java

1. Datatypes
 - a. Primitive, Wrapper And Reference
2. Variables and Constants
3. Arrays
 - a. Single and multiple dimension
4. Conditions and Loops
 - a. IF, Switch, For, Advanced For, While, Do While
5. List, Set and Map
6. Working with strings
 - a. Compare
 - b. Search
 - c. Find
 - d. **Get substring**
 - e. **Reversing String**
 - f. **Regular Expressions**
7. Methods
 - a. Methods with parameters
 - b. Methods which takes unlimited values
 - c. **Returning multiple values from a method**
8. OOPS
 - a. Class, Object and Method
 - b. Interfaces
 - c. Abstract classes
 - d. Encapsulation
 - e. Inheritance
 - f. Polymorphism
9. WebDriver
10. Architecture of WebDriver
11. Selenium 2.x vs 3.x
 - a. <http://selenium-release.storage.googleapis.com/index.html>
 - b. <https://raw.githubusercontent.com/SeleniumHQ/selenium/master/java/CHANGELOG>
12. What is webdriver?
13. What is the relation between webdriver and other browser driver classes?
14. What are the interfaces implemented by browser driver classes?
15. Write a method to get driver based on browser name?
16. What is the different between get and navigate method for webdriver?
17. What is the importance of id locator?
18. When to use value attribute for button?
19. How value attribute works for radio and list option?
20. What will happen if we use name attribute to find radio button?
21. **What is the difference between absolute and relative xpath?**
22. What is the difference between / and // ?
23. Write xpath to navigate to parent element?

24. In how many ways you can write relative XPath?

25. What is the difference between xpath and cssSelector?
26. What is the priority of using locators?
27. What is the difference between class name and css selector?
28. What is the difference between using "text()" and using "." and using normalize-space() while writing xpath?
29. How will you use DOM to find elements?
30. How do you work with radio buttons which are not having id attribute?
31. How do you work with checkbox?
32. When do you use clear method for textbox?
33. When to use selectByValue for Listbox?
34. What is the difference between selectByVisibleText vs selectByValue vs selectByIndex ?
35. Write a method to verify a list option is exist or not?
36. An application shows a list with options as checkboxes? How can you work with those kind of lists?
37. How do you work with suggestive text boxes?
38. Write a method to verify data existence in table cell?
39. Write a method to verify element based on other cell text?
40. How do you handle the calendar elements?
41. What is a frame? What is the use of them in html?
42. How do you find that element is there in frame or not?
43. What is the limitation of webdriver if element is there in frame?
44. How to find element which is there frame?
45. Can we have a frame in side of a frame?
- 46. How do you handle elements which are there in child frames?**
47. How do you instruct webdriver to search for element in main html page instead of frames?
48. Write a program to get how many frames exist in current page?
49. How do you wait for frame to be available?
50. How do you handle an element which are there in different window?
51. What is handler id?
52. What is the different getWindowhandle() and getWindowHandles()?
53. Write a method to switch to window based on title?
54. What is the difference between close and quit?
55. What is the difference between alert and html element?
56. Can we inspect an alert?
57. How do you get text from alert?
58. How do you send text to alert?
59. How many ways you can handle alert?
60. What is the difference static and dynamic wait?
61. What is the difference between implicit and explicit wait?
62. What is fluent wait?
63. Write a program to wait for element existence?
64. Write a method to wait for element existence and return element after finding?
65. What is the difference between alert and file input?

66. What is the limitation of webdriver in working with file inputs?
67. How do you handle file inputs?
68. How do you perform drag and drop operations?
69. How do you right click on an element?
70. What is the difference between Java Robot class and Actions class?
71. How many ways we can mouse hover on element?
72. Write a program to scroll to an element?
73. What is difference between webdriver and remote webdriver?
74. What is desired capabilities?
75. What is chrome options?
76. What is firefox profile?
77. Explain Selenium grid?
78. What is the architecture of selenium grid?
79. How do you test whether node is working or not?
80. What is URL you specify to run tests on node?
81. How do you run tests in parallel?
- 82. TestNG**
83. What is framework?
84. What are different frameworks available in industry?
85. What is the advantage we get using TestNG framework?
86. Explain TestNG Annotations?
87. How do you create dependent tests?
88. What is suite file?
89. How do you pass values from xml file and execute test using them?
90. How to execute multiple tests in parallel?
91. What is dataprovider?
92. What is Factory? How is it different from data provider?
93. How do run tests using excel data?
94. How do you create reporting?
95. How to get screenshot on failure?
96. Explain Exception Handling?
97. What is the difference between using Assertions vs using if condition?
98. What is the difference between hardasserts vs softasserts?
99. How do you make a test fail using statement?
100. How do you create different result file for each execution?
101. How do you add the error images to extent reports?
102. What is the difference you can observe between writing the program using POM and without POM?
103. What is page factory?
104. What is difference between finding element using a method vs using findBy annotation?
105. How do you integrate all page classes to get them using one instance?
106. How do you run multiple TestNG Suite Files?
107. How can you make sure that all team members are using the same selenium version?
108. Explain pom.xml file?

109. How to execute testng.xml from command prompt?
110. What is the use of Jenkins?
111. How do you create a Maven job in Jenkins?
112. What is free style job?
113. How do you configure a job to send mails when Jenkins job execution is complete?
114. How do you configure Jenkins to run based on GitHub changes?
115. How do you import a project from SCM?
116. What is the difference between local vs remote repositories?
117. What is the difference between commit and push?
118. How do you see that who updated the class file using GIT?
119. What is staging in GIT?
120. Where do you see the history of a GIT project repository?