

What is Python and features of Python?

1. Different variants of Python and which one we should go for.
2. Python installation and component explanation
3. Different IDE for Python and Installation/Setup of PyCharm
4. Download and Install IPython
5. Write and Execute first python program
6. Reserved Keywords in Python
7. Data type in Python
8. Data type conversion in Python
9. Operators-Arithmetic and Logical operators in Python
10. Looping statement- For loop, while loop, enhanced for Python
11. Conditional Statement- If, If else, Nested if else, Switch statement
12. 1D-Arrays, 2D Array – Array in Detail
13. Classes, Object in Python- Bread, and Butter of all OOPS programming language
14. Inheritance- Single level Inheritance
15. Constructor- Default constructor and parameterized constructor
16. Method overloading- Compile time Polymorphism
17. Constructor overloading- Compile time Polymorphism
18. Method overriding- Run time Polymorphism
19. String class and usage in Selenium- For Different validation and operation
20. Numbers in Python
21. List in Python
22. Tuple in Python
23. Dictionary in Python
24. Exception Handling- Handle Python exception
25. Debugging in Python- How to debug Python application
26. Modules in Python
27. Read and write files in Python



Selenium



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1. Selenium Architecture- Selenium internal architecture
2. Setting up stage- Install/ Configure Selenium in windows and MAC
3. Working with different browser- Chrome, IE, Firefox- Challenges with Each browser and Solution
4. Browser Navigation commands
5. WebElement commands
6. Working with Input box
7. Working with Radio button and checkbox
8. Working with dropdown
9. Working with file uploader
10. Working with buttons
11. Working with links
12. Locators in Selenium
13. Id, Name , ClassName , XPath, CSS, TagName, LinkText, PartialLinkText,
14. Program with above locators
15. Plugin in Chrome and Firefox for XPath
16. XPath in Details- Basic to Advance
17. CSS in Details
18. findElement and findElements method in detail
19. Finding multiple elements and performing actions and validations
20. Handling Dynamic WebElement in Selenium
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22. Handling Web Tables
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25. ImplicitWait
26. ExplicitWait
27. Thread.sleep vs Selenium Waits
28. How to handle all sync issues in Selenium
29. Switch to commands in Selenium
30. Handle JavaScript Alert
31. Handle Custom Alert
32. Handle Frames using id, name, Web elements
33. Handle nested frames
34. Handle multiple windows/tab
35. Handle Advertise popup



- 36.Handle Random Popup
- 37.Handle Complex Gestures in Selenium
- 38.Working with Mouse Hover, Right click, Double click, Drag and Drop
- 39.Perform Keyboard events
- 40.Robot class usage
- 41.Difference between Robot Class with Actions Class
- 42.Capture screenshot in Selenium
- 43.Create a method/Utility for screenshot
- 44.Append timestamp in Selenium
- 45.JavaScriptExecutor in Selenium
- 46.Scrolling Page
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- 49.How to handle real-time exceptions in Selenium and program for each exception
- 50.Desired Capability in Selenium
- 51.Customization of Browser settings using ChromeOption, FirefoxOption, InternetExplorerOption
- 52.Page Element Objects
- 53.Xpath Identification Techniques
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- 55.Test case validation techniques
- 56.Python BDD framework

