**JAVA Syllabus**

1. Introduction to JAVA
2. What we need to learn from JAVA for Selenium
3. Data types 🡪 int -1
4. Control statements (if,for,while) 🡪 6
5. Arrays - 3 lines
6. Simple programs on Numbers
7. String, StringBuffer ,StringBuilder 🡪 7 lines
8. Programs on Strings
9. OOPS 🡪 20 lines
10. Access modifiers
11. Static key word
12. Collections(List,Set,Map) 🡪 10 lines
13. Exception handling 🡪 4 lines

**Selenium Syllabus**

1. Introduction to Testing
2. What is Test case, Test scenario
3. Introduction to Automation Testing
4. Future of Automation testing
5. Introduction to Selenium
6. Locators(DOM)
7. 3 steps in Selenium
8. Find element locator
9. Get Web Element
10. Perform Actions
11. Selenium navigate
12. Alert handling
13. Windows handling
14. Mouse Over Actions
15. Keyboard actions
16. Drop down handling
17. Web table handling
18. Reading data from Excel sheet
19. TestNG Annotations
    1. @BeforeClass
    2. @Test
    3. @AfterClass
20. Junit
    1. @Before
    2. @Test
    3. @After
21. Parallel Execution
22. Tesng.xml file
23. Maven project Details

**Cucumber**

1. Introduction to BDD
2. Advantages of BDD
3. Introduction Gherkin language
4. Cucumber keyword
5. What is feature file
6. What is scenario
7. What is scenario outline
8. What is Background
9. Tags
10. 3 things in Cucumber
11. Feature file
12. Step definition file
13. Test runner file
14. Cucumber options
15. Hooks
16. Hands on’s

**API Testing**

1. What is API
2. What is Web Service
3. What is resource, end point
4. HTTP methods
5. What is Rest Assured
6. Headers
7. Request body
8. Response
9. Response Validation(validation methods)
10. How to validate response time
11. Authentication

Project Management Tools(Just Intro)

Jira

Git hub