



**Data Manipulation Logics**  
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Selenium Automation Testing with Project	
SNo	Syllabus
Project Automation by Selenium	
1	Introduction of Automation Testing
2	Webelement
3	Types of Webelements
4	Operations of Webelement
5	HTML for Webelements
6	Locators for Webelement
7	Add-ons a)Chropath b)Xpath c) Developer tools
8	Introduction of Selenium and components
9	a)Selenium IDE- Chrome&Firefox Browser add-on Functional Testing Tool
10	a1.Commands / Verification and Assertions
11	a2.Test Suite: set of test case scripts
12	a3.Automation scripts for test cases
13	b)Selenium RC-Server based Functional Testing Tool for webbased application
14	c)Selenium WebDriver-Standalone Functional Testing Tool for webbased application
15	d)Selenium Grid-Non functional Testing tool for Performance Testing
Java	
1	Introduction of Java and Java Project Structure
2	Packages
3	Class Structure
4	Method Structure
5	Variables for static memory allocation
6	Array for static memory allocation
7	Access Modifiers
8	Class
9	Constructor to create Object
10	Using variables and methods with objects
11	Methods types
12	Introduction of OOPs concepts
13	I. Inheritance
14	II. Interface
15	III. Polymorphism
16	a. Overloading
17	b. Overriding
18	IV. Abstraction
19	V. Encapsulation

20	Exception Handling regarding try ,catch and throw and throws
21	Collections for <b>dynamic memory allocation program</b> regarding List and Set
<b>Selenium Webdriver</b>	
1	Introduction of Selenium Webdriver including advantages and disadvantages
2	Inspecting Webelement
3	Locators types for Webelement
4	Xpath
5	Browser Commands-commands to handle browser
6	Webelement Access commands- findelement() and findelements() to access webelement
7	Webelement commands-Operation on webelement
8	Window handle commands- handling popup ,frames and windows
9	Action commands-KeyBoard, Mouse and cursor related commands
10	Synchronization commands-Slowly running script to execute commands
<b>Selenium Webdriver Automation scripts</b>	
11	Script for valid&Invalid Test cases
<b>Type of Automation Frameworks</b>	
12	Framework
13	a)Sequential framework
14	b))Modular framework
15	c)Data driven framework
16	d)Keyword driven framework
17	e)Hybrid framework
<b>TestNG framework</b>	
18	Script with TestNG annotations
19	Batch Run with XML file
20	Parameterizing Tests- Dataprovider for Data Driven Testing
21	Database Testing
<b>Regression Testing</b>	
22	Script for Regression Testing with framework
<b>Data driven Testing</b>	
23	Script for DataDriven Testing with framework
<b>Cross Browser Testing</b>	
24	Script for Cross Browser Testing with framework
<b>Others</b>	
1	Excel Read&Write by Java with apache POI jars
2	Github For Cloud repository Management
3	Maven Project
4	Jenkins concepts for build management
5	AutoIT for window based application scripts