Data Manipulation Logics
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SNo	Syllabus
Selenium Automation Testing with Project
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 ==dynamic memory allocation program== regarding List and Set
	Selenium Webdriver
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**
	Selenium Webdriver Automation scripts
11	**Script for valid&Invalid Test cases**
	Type of Automation Frameworks
12	**Framework**
13	**a)Sequential framework**
14	**b))Modular framework**
15	**c)Data driven framework**
16	**d)Keyword driven framework**
17	**e)Hybrid framework**
	TestNG framework
18	**Script with TestNG annotations**
19	**Batch Run with XML file**
20	**Parameterizing Tests- Dataprovider for Data Driven Testing**
21	**Database Testing**
	Regression Testing
22	**Script for Regression Testing with framework**
	Data driven Testing
23	**Script for DataDriven Testing with framework**
	Cross Browser Testing
24	**Script for Cross Browser Testing with framework**
	Others
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**