



Selenium testing 7000/-

Java basic

Section 1

- **Introduction to programming**
- Introduction to java
- JDK installation
- Keywords, Identifiers, variables
- Operators
- Method/Functions
- Flow Control Statements
- Arrays
- Strings
- Interactive programs in java using Scanner

Section 2

Object Oriented Programming System

- Classes and Objects
- Object creation
- Reference variable
- Global and local variables
- Constructors
- Aggregation
- Composition
- Inheritance ***
- Method Overloading
- Method Overriding
- Abstract classes
- Interfaces
- Typecasting
- JVM architecture
- Polymorphism
- Abstraction
- Java packages
- Access Specifies

Section 3

Java Built-in packages and API

- * Overview of java API

- * Object class
- * String, String Buffer and String Builder
- * Exception Handling
- * Threads and multithreading
- * Wrapper Classes
- * Data Structures
- * JAVA COLLECTION FRAMEWORKS***
- * File Handling
- * Serialization
- * Garbage Collector
- Encapsulation

Selenium

- **Automation Testing**
 - o What is Automation Testing?
 - o When we Switch to Automation Testing?
 - o Why Automation testing?/Advantages
 - o Disadvantages
 - o Automation Testing Tools
- **Selenium**
 - o What is Selenium
 - o Why Selenium? / Advantages
 - o What are its versions?
 - o What all OS, Browsers, and Programming Languages it Support?
- Java-Selenium Architecture
- WebDriver Architecture
- Basic Selenium Program to Open and close Browser
- Runtime Polymorphism Program in Selenium
- WebDriver abstract methods
- Locators
- Xpath, its Types and cases
 - o Handling Multiple Elements
 - o Handling Synchronisation issue by using implicitlyWait and Explicitly Wait
 - o Handling Dropdown (static and dynamic)
 - o Handling Keyboard and Mouse Actions
 - o Taking Screenshot
 - o Handling Disabled Element
 - o Performing Scroll down Action
 - o WebElement Interface Methods
 - o Handling Popups (web-based and Window-based)
 - o Handling Frames
 - o Handling New Windows/New Tabs
- **AUTOMATION FRAMEWORK**
 - o Stages and Types of Framework
 - o Explanation of Hybrid Framework with a combination of

- Data-Driven
- Keyword-Driven
- Method-Driven
 - POM (Page Object Model)
- **TestNG**
 - Fetching TestNG Report
 - Batch Execution
 - TestNG Flags and Annotations
 - Assertion
 - Grouping Execution
 - Data Parameterisation
 - Data driven through DataProvider
 - Parallel Execution
 - Distributed Parallel Execution
 - Cross Browser Parallel Execution
- **Modular Frameworks**
- **Hybrid Framework**
 - Hybrid Framework Architecture
 - Introduction to Maven, GitHub and Jenkins

data base

1 - Introduction

- What Is Database?
- What is Database Management System (DBMS)?
- What is Relational Model ?
- Introduction to RDBMS .
- Brief on E.F CODD .

2 - Datatypes and Constraints

- What are Datatypes ?
- Types and Examples .
- How to use .
- What are Constraints?
- Types and Examples.
- How to use.

3 - Statements in SQL

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL)

4- **Software installation**

- Installing and set up of software
- Working on Oracle 10g.

5- **Data Query Language (DQL)**

- Select
- From
- Where
- Group By
- Having
- Order By

6 -**Operators**

- Types and Examples

7- **Functions in SQL**

- Single Row Functions
- Multi Row Functions
- Max ()
- Min ()
- Sum ()
- Avg ()
- Count ()

8-**Sub Query**

- Introduction to Sub Query
- Working of Sub Query
- Query Writing and Execution
- Types of Sub Query
 1. Single Row Sub Query
 2. Multi Row Sub Query
- Nested Sub Query.

10- **Pseudo Columns**

- Introduction on Pseudo Columns
- ROWID
- ROWNUM
- Working and Usage.

11- **JOINS**

- What Is Join?
- Types of Joins.
- Cartesian Join
- Inner Join
- Outer Join
- Self-Join
- Queries and Examples.

12- Co- Related Sub Query

- Working and Examples

13- Data Definition Language (DDL)

- Create
- Rename
- Alter
- Truncate
- Drop

14- Data Manipulation Language (DML)

- Insert
- Update
- Delete

15- Transaction Control Language (TCL)

- Commit
- Save point
- Rollback

16- Data Control Language (DCL)

- Grant
- Revoke

17 - Normalization

- Introduction to Normalization
- Types of Normal Forms
- Examples.

18- E R Diagrams

- Introduction to ERD
- Examples.

Selenium

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