# SELENIUM Introduction

* What is automation testing
* When to go for automation
* Different Automation Tools (vendor & open source tools)
* Advantages of Automation
* Criteria for Automation
* Difference between Manual Testing &Automation Testing process

# Introduction to selenium

* What is selenium tool
* Use of selenium tool in automation
* Features of selenium tool
* Differences between selenium and other Tools

# Selenium Components

* Selenium IDE
* Selenium Web Driver 3
* Selenium Grid

# Configuration of Selenium IDE & Dev.Scripts

* Recording the scripts in IDE
* Understanding of the objects identification (id, name)
* Difference between Test case and test suit
* Language supported while recording
* Synchronization in selenium IDE(Wait commands)
* When to use Selenium IDE
* How to put validations 9assert,verify)
* How to read text/values from webpage (store commands)
* How to handle mouse ,keyboard events
* Limitations of IDE
* We can Run the Recording scripts against other browsers by using selenium Web driver

# Configuring Eclipse IDE for java Selenium

* How to create new java project
* How to create a new java class
* Running java class
* Viewing the results of java program

# Learning java

* Introduction to java programming
* Data Types in java
* Primitive Data types
* Wrapper Classes
* Declaring Variables
* Writing java program and running

# Conditional Statements

* If condition
* If else condition
* If else if condition (nested if)
* Switch case statement
* Examples for all the above conditions

# Loop Statements

* While loop
* Do While
* For loop
* For each loop
* Examples for all the above loops

# Array

* How to declare array
* How to store values in array
* Reading values in array

# Exception, error handling

* What are exceptions ,errors
* How to handle exceptions in the program
* Using try and catch blocks
* Types of Exceptions
* Using of throws
* Throw
* Throwable

# Object Oriented programming Class

* What is class
* What are fields and method
* How to create object for the class
* How to acess fields and methods in the class
* Constructors
* What is abstract,final class
* Variable Types (instance ,local,static)

# Polymorphism

* What is polymorphism
* Methods overloading
* Constructor overloading
* Passing arguments to methods
* Calling methods in the class
* Return values from method
* Return objects from method
* Method arguments callbt value, call by reference

# Inheritance

* + Why to do inheritance
  + How to reuse the fields and methods of parant class
* Overriding fields and methods of parent class
* Single in heritance
* Multi level in heritance
* Using super keyword
* Composition/ Aggregation
* Difference between inheritance and composition

# Interfaces

* What is interface
* Difference between class and interface
* When to use interface
* Abstract class

# Encapsulation and abstraction

* What is hiding data
* Using access specifires public ,private, protected default
* Accessing the public methods outside the class
* Difference in accessing in same package / different package

# Package

* What is package
* How to create a package
* How to import package into different class

# Collections

* Use of collections
* Advantage of collection using array
* How to add ,remove,and insert value

/elements into collections

* Using the collections like List,Set,Array list, Hash Table

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