



Selenium with Java

Mishra, Shisher

Course content:

Day 1:

- Java Introduction
 - What is Java?
 - Why Java is required for Selenium?
 - What is JDK and JRE?
 - How to download Java?
 - Configure Java
 - Download eclipse
 - WAP to print Hello World!
- Data type
 - Int
 - Char
 - Long
 - Float
 - Double
 - Boolean
- Variable
 - Local variable
 - Class variable
- Modifiers
 - Public
 - Private
 - Protected
 - Default

Day 2:

- Conditional statement
 - If else
 - Switch
- Keywords:
 - Break;
 - continue
- Loops
 - For loops
 - While loops
 - Do While loops
- String in Java

Assignment: Programs in if else, loop

Day 3:

- Constructor
 - Default
 - Parameterized
 - No args constructor
- Keywords
 - This
 - Final
 - Finally
 - Finalize
- Oops concepts

- Class
- Object
- Encapsulation
- Inheritance
 - Single
 - Multiple
 - Multilevel
 - Hierarchal

Assignment: WAP

Day 4:

- Polymorphism
 - Run time
 - Compile time
- Abstraction
- Abstract class
- Interface
- Garbage collection
- Exception Handling
- Keyword
 - abstract
 - interface
 - super
 - this

Assignment – WAP

Day 5: Collections in Java

- What is Array?
 - Single dimension
 - Multiple Dimension
- What is collection?
- What is collections?
- List

Assignment- WAP

Day 6:

- What is Set?
- What is Map?
- Enum in Java

Assignment – WAP

Day 7:

- HTML introduction
- DOM Structure
- Tags

Day 8:

- What is Selenium?
- What is IDE?
- What is Selenium WebDriver?

- Drivers in Selenium
- Launch Chrome
- Chropath
- Locators in selenium

Day 9:

- Introduction of webelement
- How to identify locators?
- Enter value in text bod
- Navigation command
- Selenium Commands

Assignment:

Day 10:

- How to handle Drop down?
- How to access links in Selenium?

Assignment –

Day 11:

- Action class
 - Drag and drop
 - Mouse hover
 - Double click
- Waits

- Static waits
- Dynamics

Assignment:

Day 12:

- Handling Alerts
- Handling Pop ups
- Handling frames

Assignment:

Day 13:

- How to handle cookies
- How to upload and download file in selenium
- Exceptions and Exceptions handling in selenium
- What is Ajax?

Assignment:

Day 14:

- What is POM?
- What is TestNG?
- TestNG annotations.

Assignment:

- TestNG Groups
- TestNG dependsonMetod
- TestNG priority, enable
- TestNG Data provider

- TestNG parameter
- Multi browser, cross browser, parallel
- Listeners
- Retry login

Day 15:

- What is Maven?
- What is dependency?
- What is pom.xml?
- What is Maven life cycle
- How to install Maven?
- What is surefire plugin

Day 16:

- What is Jenkins?
- What is CI/CD pipeline?
- How to configure Jenkins?
- Knowledge of FW creation.

Day 17:

- Framework Development