Prereq:

JAVA –

1. Basics of JAVA

* OOPS Concept ( abstraction, Encapsulation, polymorphism, inheritance )
* Class
* Interfaces
* package

1. Variables
   1. local variables
   2. global variables
   3. constants
2. Methods / functions
   1. methods without arguments
   2. methods with arguments
   3. methods without return type
   4. methods with return type
3. Constructors
   1. default
   2. parameterized
4. Access specifiers
   1. private
   2. default
   3. protected
   4. public
5. Access modifiers
   1. static
   2. final
   3. abstract
   4. synchronized
6. String in JAVA(java.lang)
   1. String functions
   2. StringBuffer
   3. StringBuilder
7. Threads
   1. How to achieve multithreading
8. Exception Handling
   1. try
   2. catch
   3. throw
   4. throws
   5. finally
9. File Handling in Java
   1. Read a file (InputStream)
   2. Write into a file (OutputStream)
10. Collections
    1. List
    2. Set
    3. Map
11. Generics – Parameterized Collections

Selenium:

- What is Automation Testing ?

- Why Automation is required ?

- Different Tools ?

- Why Selenium is popular ?

- Selenium IDE

-CSS

-xPath

* basic
* with filters
* with logical orperatiors
* with functions
* with axes functions
  + traverse between siblings
  + traverse between parent
  + traverse between child
  + traverse between grand parent
  + traverse between grand child

~~- Selenium RC~~

- Selenium WebDriver

- Selenium GRID

Frameworks :

- TestNG

- Page Object Model

Build Automation tools:

Maven

- Batch execution without opening a tool

Jenkins