09-Feb-2020

Pre-Req: ( Pre-Recorded Session – Intellipaat ) (50/60)

- JAVA

1. OOPS – concepts
2. Variables
   1. Local variables
   2. Global variables
   3. Static variables
   4. Constants
3. Methods
   1. With return type
   2. Without return type
4. Access specifiers and Access modifiers (non-functional Access specifiers )
5. Constructors
   1. Default constructor
   2. Parameterized constructor
6. Class and abstract class
7. Interface
8. Looping Statements => one program
   1. For
   2. While
   3. Do while
   4. For each
9. Conditional Statements
   1. If
   2. If else
   3. If elseif else
   4. Switch
10. String <Class> ->java.lang =>atleaset 2-3 Question and atleast one program
    1. Functions
    2. StringBuffer
    3. StringBuilder
    4. Programs 🡪 reversing string, reversing word, palindrome..
11. File Handling 🡺Java.io
    1. InputStream
    2. OutputStream
    3. How to print the file names in a folder
    4. How to read the text file
    5. How to write into text file
12. Exception Handling
    1. Try
    2. Catch
    3. Finally
    4. Throw
    5. Throws
13. Threads
    1. Thread
    2. Runnable Interface
14. Collections \*\*\*\*\*\*\*
    1. List
    2. Set
    3. Queues
    4. Maps
15. Generics

Content:

Selenium :

* Selenium IDE🡪 POC, Record and PlayBack
* Selenium RC
* Selenium WebDriver
  + Selenium 2.0
  + Selenium 3.0 ->3.141.59
    - Xpath writing techniques \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 70%
    - Type -> text box, text area,...
    - Click -> checkbox, radio button, calendar, image,buttons,links ...
    - Reading text from application screen
    - Drag and drop
    - Moving mouse
    - webTable
    - Browser actions – maximizing, refresh, back button, forward button...
    - Implicit wait
    - Explicit wait
    - Fluent Wait
    - How to handle multiple browser
    - How to execute script on different browsers
    - How to achieve data driven testing in Selenium
      * Text file
      * Excel file
    - Validations in Selenium
    - Handling popup
      * Alerts
      * Confirmation popup
      * Authentication popup
      * File Download popup
      * File Upload popup
  + Selenium 4.0 -> alpha version
* Selenium Grid
  + Distributed Execution
* Frame Work:
  + Function Driven Automation Framework
  + Data Driven Automation Framework
  + Keyword Driven Automation Framework
  + Hybrid Driven Automation Framework
  + TestNG
  + Page Object Model
* Maven
  + How to create maven project
  + Life cycle of maven
  + Phases of maven
  + How to manage dependencies
* Introduction Appium

Advanced :

* Git
* Jenkins
* BDD

What is Automation Testing ?

1. Complex (Regression Testing)
2. 4-6 Hrs (Productive work) 8-9Hrs
3. Time consuming
4. Person – not on Process
5. Mood –
6. Coverage not 100%

Automation (24 X7) :

Process in which we relay on Tools to perform testing activities.

Tools:

1. UFT
2. Test Complete
3. Sahi
4. Selenium
5. Appium
6. Egg plant
7. Cucumber
8. RFT
9. Test Studio
10. Silk Test
11. Test Partner

Selenium :

1. Open source Freely available software
2. Multiple browser (almost all popular browsers) for automation
3. Platform independent (Windows, Linux, Mac)
4. Multiple programming language – Java, ruby, python, c#, perl, php, Javascript.
5. No need of dedicated machine while executing script
6. Parallel Execution
7. Distributed Execution



Drawbacks :

* Only Web Applications ( selenium 4.0 alpha version)
* We can not test the application with latest version of browser (at least 1 version we are behind)

Selenium IDE :

* First version of selenium
* Only version of selenium which has UI
* Record and playback
* Only on FF and Chrome as an add-on

SELENESE – is the script generated by selenium IDE

Validation in IDE:

1. Assert – will not continue the execution till the last line when there is a failure
2. Verify - will continue the execution till the last line even though there is a failure

8 ways

1. Id
2. Name
3. Classname
4. Tagname
5. Linktext
6. Partiallinktext
7. Css
8. Xpath