Selenium Sudhakar

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Browser	Selenium Grid	Day_013_InvocationCount	TestNG Annotations	Day_018_Waits
Get_vs_Navigate	Selenium Limitations	Day_005_TestNG_DataProvide	TestNG_Parameters1	Day_019_Frames
Day_004_Dropdown	Selenium Featues	Day_006_TestNG_DataProvide	Day_014_015_Parallel_Methoc	Day_020_Multiple_Windows
OR1_applicationProperties	Selenium Challanges	Day_007_Browser_Compatabi	Day_016_ParallelClasses	Day_021_Java_Script_Executer
OR1_Excel	Web Table	Day_025_ExcelUtil_Apache_P	Day_017_Multiple_Suites	Day_022_Action_class
Xpath_vs_cssSelector	Capcha	Proxy Setting	Day_032_TestNG_Groups	Day_027_Alerts
cssSelector	Assertions	Dimesions	Day_034_TestNG_Listeners	Day_026_TakeScreenShot
Day_024_Advanced_Xpaths	Page Object Model	Keyword Driven	TestNG_Priority	Day_023_Robot_Class
Day_41_Exceptions	Page Factory Model	Interfaces	dependsOnMethods	Day_025_ExcelUtil_Apache_PO
Web Element Border	Web Element Color	Classes in Selenium	BrokenLinks	Emailable Report
Locators in Selenium	FindElement vs Find Elements	Number of Hyperlinks	Extent Report1	SSL Certificate
		Page Load Strategy	Relative Locators	Selenium Suite
Chrome Options	Preserve Order	Maven Life Cycle - Pom.xml	HeadLess Browser	is Displayed - is Enabled - is Selected
Navigate_Get	Quit_Close	Tell me about your self	HeadLess Browser	is Displayed - is Enabled - is Selected
Navigate_Get	Quit_Close			

SNO	Xpath	cssSelector
	Both locators are used to locate web elements on a web page	
1	By using XPath , we can traverse both forward and backward direction to locate a web element on a webpage, which means the traversal can be both ways from parent to child and child to parent as well.	whereas CSS selector only moves forward direction only, which means the traversal is from parent to child only.
2	Xpath is slower in terms of performance and speed , when locating a web element on a web page	Css has better performance and speed than xpath.
3	Xpath engines are different in each browser, hence make them inconsistent	CSS locator strategy is same in all browsers. Hence CSS is preferred than xpath
4	There is no guarantee that xpath will run always in IE Browser, Because IE does not have a native xpath engine, where as FireFox and Chrome have a native xpath engine	CSS Selector will run in all browsers
5	Xpath synatx is complex than CSS Selector	where as Writing of CSS Selector is very simple than xpath
	However there are some situations where, we need to use xpath, like while searching for a parent element or searching element by its text.	

Let's say, you have found 5 elements with same locator and you would like to perform action on each element by providing index number (here, variable is used for index as "i")

```
for(int i=1; i<=5; i++)
{
    string xPathWithVariable = "(//div[@class='className'])" + "[" + i + "]";
    driver.FindElement(By.XPath(xPathWithVariable)).Click();
}
```

It takes XPath :

```
(//div[@class='className'])[1]
(//div[@class='className'])[2]
(//div[@class='className'])[3]
(//div[@class='className'])[4]
(//div[@class='className'])[5]
```