## 7. Write the disadvantages of selenium.

### Dis-Advantages of Selenium

1. Selenium needs very much expertise resources. The resource should also be very well versed in framework architecture.
2. Selenium only supports web based application and does not support windows based application.
3. It is difficult to test Image based application.
4. Selenium need outside support for report generation activity like dependence on TestNG or Jenkins.
5. Selenium does not support built in add-ins support.
6. Selenium user lacks online support for the problems they face.
7. Selenium does not provide any built in IDE for script generation and it need other IDE like Eclipse for writing scripts.
8. Selenium script creation time is bit high.
9. Selenium does not support file upload facility.
10. Selenium partially supports for Dialog boxes.

## 8 Difference between get() & navigate() method

| Sr No | get() | navigate() |
|-------|-------|------------|
| 1 | It is responsible for loading the page and waits until the page has finished loading. | It is only responsible for redirecting the page and then returning immediately. |
| 2 | It cannot track the history of the browser. | It tracks the browser history and can perform back and forth in the browser. |

**9 What is the difference between Selenium RC & Selenium WebDriver.**

| Features | Selenium WebDriver | Selenium RC |
|---|---|---|
| Architecture | Not acquired from Javascript. | Acquired from Javascript. |
| Server | No server is needed to begin test case execution. | Server is needed to begin test case execution. |
| Object Oriented | It is used widely for object oriented programming. | It is moderately used for object oriented programming. |
| Browser | It can test all the leading browsers including execution in headless mode. | It can test all the leading browsers. |
| Alerts | It is capable of handling alerts. | It is not capable of handling alerts. |
| Dropdown | It is capable of handling dropdown. | It is not capable of handling dropdown. |

| | | |
|---|---|---|
| Dynamic Locators | Elements can be located with the dynamic locators. | Elements cannot be located with the dynamic locators. |
| Record and playback | It does not have the feature of record and playback. | It does not have the feature of record and playback. |
| Mouse Actions | It is capable of handling mouse actions. | It is not capable of handling mouse actions. |
| Performance | It is fast as it communicates straight with the browser. | It is not as fast as Selenium webdriver because it does not communicate straight with the browser. |
| iPhone/Android | It is capable of testing iPhone/Android taking the help of Android Driver and iPhone Driver. | It is not capable of testing iPhone/Android. |
| Xpath | It contains both absolute xpath and relative xpath. | It contains only the absolute xpath. |
| Listener | It is capable of using the listener. | It is not capable of using the listener. |
| Navigation | It is capable of handling navigation. | It is not capable of handling navigation. |

| Usage | It has a large number of APIs and can be used with multiple languages like Java, Python, C#, Ruby and so on. | It only has JARS available to run the test cases. |

## 10 What are locators & types of locators in selenium

| Method | Syntax | Description |
|---|---|---|
| By ID | driver.findElement(By.id (<element ID>)) | Locates an element using the ID attribute |
| By name | driver.findElement(By.name (<element name>)) | Locates an element using the Name attribute |
| By class name | driver.findElement(By.className (<element class>)) | Locates an element using the Class attribute |
| By tag name | driver.findElement(By.tagName (<htmltagname>)) | Locates an element using the HTML tag |
| By link text | driver.findElement(By.linkText (<linktext>)) | Locates a link using link text |

| By partial link text | driver.findElement(By.partialLinkText (<linktext>)) | Locates a link using the link's partial text |
|---|---|---|
| By CSS | driver.findElement(By.cssSelector (<css selector>)) | Locates an element using the CSS selector |
| By XPath | driver.findElement(By.xpath (<xpath>)) | Locates an element using XPath query |