**Introduction:**

**Selenium** is an open source automation testing tool.

It is used exclusively forweb based applications

You can work on multiple operating systems using selenium

Platforms Supported by Selenium

Windows

OS X

Linux

Solaris

following languages are used with selenium.

- Java  
- C#  
- Ruby  
- Pyton  
- PHP  
- Pearl

Selenium Browsers Support:

InternetExplorer

Firefox

Chrome

Safari

Interview Questions

What makes Selenium Unique from other Automation tools?

Explain WebDriver Architecture.

Why not older Version Selenium RC 1.0?

WebDriver is faster than **Selenium RC** since it speaks directly to the browser uses the browser's own engine to control it. **Selenium RC** is slower since it uses a Javascript program called **Selenium** Core. This **Selenium** Core is the one that directly controls the browser, **not** you.

There are many difference between Selenium RC and Selenium WebDriver. However the major difference between these two are in their architecture.  
  
Selenium RC is the predecessor of Selenium WebDriver. Selenium RC stands for Selenium Remote Control. It is called remote control because you do not directly interact with the browser, instead you use a HTTP proxy to control the browser remotely and this is what exactly Selenium RC do. Selenium RC have a server which is coded in Java which acts as a HTTP proxy. The server translate the command received over  HTTP into Javascript and ‘injected’ javascript functions into the browser when the browser was loaded and then used its javascript to drive the AUT within the browser. Because of this architecture, Selenium RC is very complex and heavy weight which many issues while test case execution due to heavy JavaScript injection in the browser and same origin policy violation. The APIs written in RC were dictionary based API in which all the methods were exposed in a single class. Not much Object Oriented.  
  
Selenium WebDriver on the other hand interacts with the browser natively. It uses the browser's native support for automation to drive them without using the support of selenium server. WebDrive has a driver for each browser. E.g for running a test on Firefox, WebDriver will use Firefox Driver to drive the automation test.  Because of this, it provides a better interaction with the browser then Selenium RC. The APIs written for WebDriver are completely object oriented which makes it easier to work with.  
  
The other differences are:  
1. Web Driver has the ability to support HTML unit driver which can run the test in headless mode, however selenium RC needs a live browser to execute the test.  
2. Web driver can be used for testing iPhone or Android apps. Selenium RC only supports web applications  
3. Web driver cannot readily support new browsers since a driver code for new browser needs to be written to provide support. Selenium RC can easily support any browser.  
4. Web driver has very good support and development community. Selenium RC has a limited support and dev community.

What are different Versions of Selenium?

What are different browsers does Webdriver Support?

In how many languages we can write Selenium code?