<https://www.techbeamers.com/top-30-selenium-webdriver-interview-questions/>

* Selenium grid Config file format – JSON
* WebDriver is an Interface
* “Function libraries concept **can be** implemented in Data Driven Framework.”
* “Data Driven Framework supports parallel execution of scripts.”
* **Checked** type of exception is handled during compile time
* Selenium IDE supporting recording, batch testing and test execution
* **What is the Java file format of Jenkins installer usually used**? WAR file. The Web application ARchive (WAR) file version of Jenkins can be installed on any operating system or platform that supports Java
* What is the data type of first argument of enable function for logging under Java in Selenium WebDriver? – String
* Selenium.setSpeed() - Runs each command after setSpeed delay by the number of milliseconds specified in setSpeed().
* Thread.sleep() - Waits for only once at the command given at sleep.
* **We can delete cookies in 3 ways.**
* driver.manage().deleteCookieNamed("CookieName");
* driver.manage().deleteCookie(CookieId);
* driver.manage().deleteAllCookies();
* **getWindowHandle() vs getWindowHandles()**
* "getWindowHandle()" method will provide a unique identifier(handle) of the current browser window which is being controlled by the WebDriver.
* Whereas "getWindowHandles()" will provide a set(collection) of all existing window identifiers(handles) present at a given time
* **driver.getWindowHandle()**return type is string**and**
* **driver.getWindowHandles()**return type is Set<string>.
* **driver.getWindowHandle()**is used to handle single window i.e. main window **and driver.getWindowHandles()**is used to handle multiple windows.

**Why is the actions class used for in WebDriver?** It controls the actions of mouse*.*

* Data Source **is not a valid component of an UI automation framework**
* **Component of an UI automation framework:**
* Object Repository
* Reporting and logging
* XML Parser
* Configuration File
* **keyword driven framework - It is best suited for functional testing and is a functional automation testing framework**
* **The default status of JavaScript in HTMLUnitDriver – Disabled**
* **To enable JavaScript in HTMLUnitDriver during driver initialization –** 
  + **HtmlUnitDriver driver = new HtmlUnitDriver(true);**
* **HtmlUnitWebDriver is used for Headless browser testing**
* **fireEvent()command is a “OnEvent Handler”**
* **WebDriver over Selenium RC**
* WebDriver does not need the Selenium RC server to be running
* WebDriver has native web browser support and runs faster than RC
* WebDriver supports headless HTMLUnitDriver that enables faster test execution
* **Selenium Grid does not expose any APIs**

**There are three kinds of exceptions:**

1. Checked Exception
2. Unchecked Exception
3. Error

**#1) Checked Exception:**Checked exception is handled during compile time and it gives the compilation error if it is not caught and handled during compile time.

**Example**: FileNotFoundException, IOException etc.

**#2) Unchecked Exception:** In case of the unchecked exception, a compiler does not mandate to handle. The compiler ignores during compile time.

**Example**: ArrayIndexoutOfBoundException

**#3) Error:**When a scenario is fatal and the program cannot recover then JVM throws an error. Errors cannot be handled by the try-catch block. Even if the user tries to handle the error by using Try catch block, it cannot recover from the error.

**Example**: Assertion error, OutOfMemoryError etc.

there are many Exception classes under WebDriverException, we commonly see the below ones.

* NoSuchElementException
* NoSuchWindowException
* NoSuchFrameException
* NoAlertPresentException
* InvalidSelectorException
* ElementNotVisibleException
* ElementNotSelectableException
* TimeoutException
* NoSuchSessionException
* StaleElementReferenceException

**Page Object Model Advantage**

* POM provides clean separation between test code and page specific code.
* POM solves the problem of duplicate locators for same WebElement.
* POM reduces the maintenance of the test scripts
* POM ensures code re-usability.