## webdriver interface:

- This is the main interface of selenium.
- It is used to represent the actual browser.
- Its methods falls under three category.
- 1. control of browser itself.
- selection of webElements.
- debugging aids.

## category wise list of methods:

- 1. control of the browser.
  - **get(string url)**: this method is used to open the specified url in browser window represented by webdriver instance.

```
E.g WebDriver driver = new ChromeDriver ();
driver.get("url.");
```

- String getCurrentUrl(): this method returns string url of page which is currently open.
- String getTitle(): This method will return title of the currently opened web page.
- **String getPageSource():** this method returns the entire source code of the web page in string.

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- **void close ():** this method is used to close the current browser window opened by driver instance. it will not close previous browser window opened by WebDriver instance.
- **void quit():** this method will quit all the browser window opened by webdriver instance.
- String getWindowHandle(): It is a unique 'HexaDecimal String 'ID of the window.
- -It return String handle of currently opened window.
- **set<String>getWindowHandles():** Return set of window handles which can be used to iterate over all open windows open of this WebDriver instance.
- TargetLocator switchTo(): It is used to switch to the window or frame specified by TargetLocator.
- Navigation navigate(): It is used to navigate back, forward, refresh on current page.
  - navigation is an **inner interface** of WebDriver interface.
  - It has methods like back(), forward (), to(String url), to(Url url),refresh().

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## 2. Selection of webElements:

- **WebElement findElement(By by):** it is used to select WebElement specified by 'By class instance'. if element is not found in specified time then this method will throw 'NoSuchElementException'.
- List<WebElements> findElements(By by): This method will return list of webElements specified by 'By instance'. It will return empty list if NO matching element found.

## Implementation classes of WebDriver:

- 1.ChromeDriver:
- 2.InternetExplorerDriver;
- 3.FirefoxDriver
- 4.SafariDriver.
- 5.OperaDriver
- 6.Android Driver
- 7.HTML UnitDriver
- 8.OperaDriver.