**System.*setProperty* ("webdriver.chrome.driver"**,**"C:/Users/CIMBOM/Documents/selenium dependencies/drivers/chromedriver.exe");**  
**WebDriver** driver **=** new **ChromeDriver();**  
driver**.get**("http://a.testaddressbook.com/sign\_in"**);** // or driver.navigate().to();

driver.get(); // opens the url

driver.navigate().to(); // opens the url ("https://www.amazon.com")

driver.navigate().back(); // navigate back to google

driver.navigate().forward(); // navigating forward to amazon

driver.navigate().refresh(); // refreshes the page

driver.manage().window().maximize(); // fullscreen window

driver.quit(); // quiting the browser

driver.close(); // closing the browser

driver.getTitle(); // gets the url. Assign it to a string to compare.

WebElement searchBox = driver.findElement(By.id("result-stats"));

WebElement searchBox = driver.findElement(By.name("q"));

WebElement searchBox = driver.findElement(By.className("xsRiS"));

WebElement shopping = driver.findElement(By.partialLinkText("ddre"));//href="/addresses">Addresses</a>

WebElement bestSellers = driver.findElement(By.linkText("Addresses")); //href="/addresses">Addresses</a>

If driver doesn’t find the element, it throws a runtime exception : **NoSuchElementException.**

|  |  |  |
| --- | --- | --- |
| searchBox.sendKeys();  searchBox.submit(); //for search  shopping.click();  searchResult.getText();  searchBox.clear(); | **try** {  Thread.*sleep*(5000); } **catch** (InterruptedException e) {  e.printStackTrace(); } | 1. By.id(“”)  **LOCATORS**  2. By.name(“”)  3. By.className(“”)  4. By.tagName(“”)  5. By.linkText(“”)  6. By.partialLinkText(“”)  7. By.xpath(“”)  8. By.css(“”) |

List<WebElement> listOfLinkELements = driver.findElement**s**(By.tagName("a")); // *interview question*

System.out.println("There are " + listOfLinkELements.size() + " links on the page");

**for** (WebElement element **:** listOfLinkELements) {

*System.out.println*(element.getText());}

**======================= USE XPATH TO LOCATE ELEMENTS ========================**

**1. Absolute xpath : //parent/child/child/child/...**

WebElement emailBox = driver.findElement(By.xpath("html/body/div/div/div/div/form/div[1]/input"));

**2. Relative xpath : //tagName[@attribute='value'];**

* //tagname[@attiribute='value'] // certain tag, certain attibute, certain atribute value value should be in ' ', not " "
* //tagname[.='text name'] // certain tag, any attiribute, certain exact text with space and all.
* //\*[.='text name'] // any tag, any attribute, certain exact text with space and all.
* //\*[(text()='exact text with extra space and all')] // give me certain text on the page.
* //\*[contains(text(),'piece of text')]
* //tag[@attribute1='value 1' or @attribute2='value2'] // One of the attributes must be correct.

**==================== USE CSS SELECTOR TO LOCATE ELEMENTS ====================**

* "tagName[attribute name='value’]"Example ====> driver.findElement(By.cssSelector("input[name='session[email]']"));
* **"**tagName**#**id value" **or** "#id value" => This works **for id** value only  
  Example ====> driver.findElement(By.cssSelector("input#session\_email"));
* "tagName.class value" **or** "**.**class value" => This works **for class** value only  
  Example ====> driver.findElement(By.cssSelector("input.form-control"));

**MAVEN (dependencies)**

WebDriverManager.*chromedriver*().setup(); *mvnrepository* ===> *WebDriverManager*

WebDriver driver = **new** ChromeDriver(); *mvnrepository* ===> *selenium java*

driver.get(**"https:/www.google.com"**); *mvnrepository* ===> *JavaFaker*

WebElement searchBox = driver.findElement(By.*name*(**"q"**));

Faker faker = **new** Faker();

searchBox.sendKeys(faker.name().fullName()+ Keys.***ENTER***);

System.***out***.println(faker.address().city());