1. How do I launch the browser using WebDriver?  Please give the syntax for at least 3 browsers

Firefox:

System.setProperty("webdriver.gecko.driver","D://Selenium Training//Selenium Environment Files//geckodriver.exe");

                WebDriver driver = new FirefoxDriver();

Chrome:

System.setProperty("webdriver.chrome.driver", "D:/SeleniumEnvironment/chromedriver\_win32/chromedriver.exe");

                  WebDriver driver = new ChromeDriver();

Internet Explorer:

System.setProperty("webdriver.ie.driver", "D://Selenium Environment//IEDriverServer\_x64\_2.53.1//IEDriverServer.exe");

                  WebDriver driver = new InternetExplorerDriver();

1. Please find the locators for below given image.

Url : <https://www.amazon.in/>

* ID

driver.findElement(By.id("twotabsearchtextbox");

* Name

driver.findElement(By.name("field-keywords"));

* Linktext

driver.findElement(By.linkText("Try Prime "));

* Partial Linktext

driver.findElement(By. PartialLinkText ("Prime "));

* Tag Name

driver.findElements(By.tagName(a));

* Class Name

driver.findElement(By.className("nav-search-dropdown searchSelect"));

* CSS Selector
  1. Tag and ID

driver.findElement(By.cssSelector("input# ch\_login\_email "));

* 1. Tag and Class

driver.findElement(By.cssSelector("span.icp-nav-link-inner”));

* 1. Tag and Attribute

driver.findElement(By.cssSelector("a[tabindex="9"]"));

* 1. Tag, Class and Attribute

driver. findElement(By.cssSelector(“input.nav-input[type="submit"]”));

* 1. Matches (Starts with, Ends with, Contains)

Starts with:

driver. findElement(By.cssSelector(“form[name^="site"]”));

Ends with:

driver. findElement(By.cssSelector(“form[name$="search"]”));

Contains:

driver. findElement(By.cssSelector(“form[name\*="-sea"]”));

* 1. Child elements

driver.findElement(By.cssSelector(“ul.hmenu.hmenu-translateX.hmenu-visible li:nth-child(2)”);

* Xpath
  1. Standard Xpath

driver.findElement(By .xpath(//input[@id="twotabsearchtextbox"]));

* 1. Using Contains

driver.findElement(By .xpath(//input[contains(@id, ‘twotabsearchtextbox’]));

* 1. Using Xpath with AND & OR

driver.findElement(By .xpath (//input[@id='twotabsearchtextbox' OR @name='field-keywords’]));

driver.findElement(By .xpath (//input[@type=’text’AND @name='field-keywords’]));

* 1. Using starts-with

driver.findElement(By.xpath(“//input[starts-with(@name, 'field’)]”))

* 1. Using text in Xpath

driver.findElement(By.xpath(“//p[@text()=’ SIGN UP’]”))