Code Snippet used while automating with selenium in current project.

**Instantiate Specific Browser**

**Firefox Driver**

WebDriver driver = new FirefoxDriver();

**Chrome Driver**

WebDriver driver = new ChromeDriver();

**Safari Driver**

WebDriver driver = new SafariDriver();

**How to check if Element Exists**

driver.findElements(By.id("element-id")).size()!=0

**How To Check If An Element Is Visible With WebDriver**

WebElement element = driver.findElement(By.id("element-id"));

if(element instanceof RenderedWebElement) {

System.out.println("Element visible");

} else {

System.out.println("Element Not visible");

}

**Wait for element to be available**

WebDriverWait wait = new WebDriverWait(driver, 30);

WebElement element = wait.until(ExpectedConditions.elementToBeClickable(By.id("id123")));

**Mouse Over Action To Make Element Visible then click**

Actions actions = new Actions(driver);

WebElement menuElement = driver.findElement(By.id("menu-element-id"));

actions.moveToElement(menuElement).moveToElement(driver.findElement(By.xpath("xpath-of-menu-item-element"))).click();

**Execute a java script statement on a Page**

JavascriptExecutor jsx = (JavascriptExecutor) driver;

jsx.executeScript("alert('hi')");

**Upload a file**

String filePath = "path\\to\\file\for\\upload";

JavascriptExecutor jsx = (JavascriptExecutor) driver;

jsx.executeScript("document.getElementById('fileName').value='" + filePath + "';");

**Switch Between Frames**

WebElement frameElement = driver.findElement(By.id("id-of-frame"));

driver.switchTo().frame(frameElement)