**Finding a link**

by.linkText(text of a link - inside a tag, href)

by.partiallinktext(part of a text of a link - inside a tag, href)

**Finding a link is broken**

String title=Driver.getTitle()

if(title.contains(“404”)

System.out.println(“Link is broken”)

Stale element refernce exception

When you search an element & try to perform an operation, but there is no such element available

Without finding again an element and just try to perform an operation leads to Stale exception

**Xpath**

// relative

/ absolute

**Retrieve a value from textbox**

getAttribute() of value

store it in a string

print it

**Textbox enabled check**

isEnabled()

store the boolean value in a variable

print it

**Window handle**

driver.getwindowhandle

driver.getwindowhandles

driver.switchTo().oldwindow - to go to native window

**Frame**

Html page within a html page is frame

driver.switchTo().frame(0) - control switches from native html page

to take a value inside tag - getText()

to take a parameter inside tag - getAttribute()

driver.switchTo().defaultcontent() - to go to native html frame

driver.findElements(By.tagName(iframe,div,a,etc)) – to find counts of link/imagae

**Drag and drop**

Actions actions = new Actions(driver);

actions.clickAndHold(From).moveToElement(To).release(To).build().perform()

(OR)

actions.dragAndDrop(From, To).build().perform()

**List group selection**

Actions actions = new Actions(driver);

actions.keyDown(Keys.CONTROL).click(selectable.get(0).click(selectable.get(0).build().perform()

(OR)

actions.clickAndHold(selectable.get(0))

actions.clickAndHold(selectable.get(0))

actions.build().perform()

**Download a file and check it in complete list of other files**

File fileLocation = new File(give the download path)

File[] totalFiles = fileLocation.listFiles()

**Upload a file**

To transfer something into clipboard - toolkit

string file = give the path

StringSelection selection = new StringSelection(file)

Toolkit.getDefaultToolkit().getSystemClipboard().setContents(selection, null)

***Robot - Actions to be performed on windows application***

Robot robot = new Robot()

robot.keypress(KeyEvent.VK\_CONTROL)

robot.keypress(KeyEvent.VK\_V)

**To check if a image is broken**

naturalWidth=0

if(brokenImage.getAttribute(“naturalWidth).equals(“0”)

**driver.get vs driver.navigate().to**

In driver.get – webpage cannot be refreshed, go forward/backward

In driver.navigate().to – webpage can be refreshed, go forward/backward

Href will normally tell you where the link will go

**Tables**

Columns – th; Rows – tr; cells - td