

Open Chrome

```
package Selenium;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class OpenChrome {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver", "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();

        driver.get("https://www.google.com/");

        //driver.close();
        //driver.quit();

    }

}
```

Search In Google

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class SearchInGoogle {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.google.com/");

        driver.findElement(By.name("q")).sendKeys("Facebook" + Keys.ENTER);

    }

}
```

Textbox

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Textbox {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.leafground.com/home.html");

        driver.findElement(By.xpath("//*[@id='post-153']/div[2]/div/ul/li[1]/a/img")).click();

        driver.findElement(By.id("email")).sendKeys("Mujeeb@gmail.com");

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[2]/div/div/input")).sendKeys("Mujeeb");

        String val = driver.findElement(By.name("username")).getAttribute("value");
        System.out.println(val);

        //System.out.println(driver.findElement(By.name("username")).getAttribute("value"));

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[4]/div/div/input")).clear();

        System.out.println(driver.findElement(By.xpath("//*[@id='contentblock']/section/div[5]/div/div/input")).isEnabled());

    }

}
```

Alert

```
package Selenium;

import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class AlertEx {

    public static void main(String[] args) throws InterruptedException {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();
        driver.get("https://www.leafground.com/pages/Alert.html");

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[1]/div/div/button")).click();

        Alert alert = driver.switchTo().alert();
        Thread.sleep(2000);
        alert.accept();

        Thread.sleep(2000);

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[2]/div/div/button")).click();

        Alert confirm = driver.switchTo().alert();
```

```
Thread.sleep(2000);  
confirm.dismiss();
```

```
Thread.sleep(2000);
```

```
driver.findElement(By.xpath("//*[@id=\'contentblock\']/section/div[3]/div/div/button")).click();
```

```
Alert prompt = driver.switchTo().alert();  
prompt.sendKeys("Muneera and Mujeeb");  
Thread.sleep(2000);  
prompt.accept();
```

```
//Thread.sleep(2000);  
//driver.close();  
driver.quit();
```

```
}
```

```
}
```

AutoComplete

```
package Selenium;
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class AutoComplete {
    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.booking.com/");

        driver.findElement(By.id("ss")).sendKeys("k");
        Thread.sleep(3000);
        List<WebElement> auto =
driver.findElements(By.xpath("//*[@id='frm']/div[1]/div[1]/div[1]/div[1]/ul[1]/li"));
        System.out.println(auto.size());

        for (WebElement key : auto) {
            //System.out.println(key.getText());
            if(key.getText().equals("Kandy")) {
                key.click();
                //System.out.println("It's Working");
                break;
            }
        }
    }
}
```

Button

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.Point;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Button {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.leafground.com/home.html");

        driver.findElement(By.xpath("//*[@id='post-153']/div[2]/div/ul/li[2]/a")).click();

        driver.findElement(By.id("home")).click();

        // find the location

        driver.findElement(By.xpath("//*[@id='post-153']/div[2]/div/ul/li[2]/a")).click();

        Point location = driver.findElement(By.id("position")).getLocation();

        int xAxis = location.getX();
        int yAxis = location.getY();

        System.out.println("The location of x is " + xAxis + " and y is " + yAxis);

        // find the colour

        System.out.println(driver.findElement(By.id("color")).getCssValue("background-
color"));

        // find the size

        int height = driver.findElement(By.id("size")).getSize().getHeight();
        int width = driver.findElement(By.id("size")).getSize().getWidth();

        System.out.println("The button height is " + height + " width is " + width);

    }

}
```

Check Box

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class CheckBox {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.leafground.com/pages/checkbox.html");

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[1]/input[1]")).click();

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[1]/input[3]")).click();

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[1]/input[5]")).click();

        System.out.println(driver.findElement(By.xpath("//*[@id='contentblock']/section/div[2]/input")).isSelected());

        WebElement deSelect =
        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[3]/input[2]"));

        if(deSelect.isSelected()) {

            deSelect.click();

        }

    }

}
```


Drop Down

```
package Selenium;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;

public class DropDown {

    public static void main(String[] args) throws InterruptedException {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.leafground.com/pages/Dropdown.html");

        WebElement dropdown1 = driver.findElement(By.id("dropdown1"));

        Select select1 = new Select(dropdown1);
        select1.selectByIndex(2);
        //select1.selectByVisibleText("Loadrunner");
        //select1.selectByValue("1");

        Thread.sleep(2000);
        WebElement dropdown2 = driver.findElement(By.name("dropdown2"));

        Select select2 = new Select(dropdown2);
        select2.selectByVisibleText("Loadrunner");

        Thread.sleep(2000);
        WebElement dropdown3 = driver.findElement(By.id("dropdown3"));

        Select select3 = new Select(dropdown3);
        select3.selectByValue("1");

        Thread.sleep(2000);
        WebElement dropdown4 = driver.findElement(By.className("dropdown"));

        Select select4 = new Select(dropdown4);
        List<WebElement> options = select4.getOptions();
        int size = options.size();
        System.out.println(size);
    }
}
```

```
        WebElement dropdown5 =  
driver.findElement(By.xpath("//*[@id='contentblock']/section/div[5]/select"));  
        dropdown5.sendKeys("Loadrunner");
```

```
        WebElement dropdown6 =  
driver.findElement(By.xpath("//*[@id='contentblock']/section/div[6]/select"));
```

```
        Select select6 = new Select(dropdown6);  
        select6.selectByIndex(1);  
        select6.selectByIndex(3);
```

```
    }
```

```
}
```

Droppable

```
package Selenium;

import java.awt.Desktop.Action;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;

public class Droppable {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://leafground.com/pages/drop.html");

        WebElement from = driver.findElement(By.id("draggable"));
        WebElement to = driver.findElement(By.id("droppable"));

        Actions act = new Actions(driver);
        //act.clickAndHold(from).moveToElement(to).release(to).build().perform();
        act.dragAndDrop(from, to).build().perform();

    }

}
```

File Download

```
package Selenium;

import java.io.File;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class FileDownload {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.esn.ac.lk/downloads/students");

        driver.findElement(By.xpath("//*[@id='block-tarapro-
content']/div/article/div/div/table/tbody/tr[2]/td[2]/a/img")).click();

        Thread.sleep(3000);

        File FileLocation = new File("C:\\Users\\Admin\\Downloads");

        File[] TotalFiles = FileLocation.listFiles();

        for (File file : TotalFiles) {
            if(file.getName().equals("Application-form-for-Academic-Transcript.doc")) {
                System.out.println("The file is Downloaded.....");
                break;
            }
        }

    }

}
```

Frames

```
package Selenium;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Frames {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://leafground.com/pages/frame.html");

        driver.switchTo().frame(0);
        // we can write frame index is 0. if don't have any id or name in inside the HTML
frame.

        driver.findElement(By.id("Click")).click();

        String text = driver.findElement(By.id("Click")).getText();
        System.out.println(text);

        driver.switchTo().defaultContent();

        // finding a nested Frame
        driver.switchTo().frame(1);
        driver.switchTo().frame("frame2");
        driver.findElement(By.id("Click1")).click();

        driver.switchTo().defaultContent();

        List<WebElement> totalFrames = driver.findElements(By.tagName("iframe"));
        int sizeOfFrame = totalFrames.size();
        System.out.println("Total number of frames are: " + sizeOfFrame);

        driver.quit();

    }

}
```

Image

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Image {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://the-internet.herokuapp.com/broken_images");

        WebElement broke =
driver.findElement(By.xpath("//*[@id='content']/div/img[1]"));

        if(broke.getAttribute("naturalWidth").equals("0")) {
            System.out.println("The image is broken...");
        }
        else {
            System.out.println("The image is not broken...");
        }

    }

}
```

Link

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Link {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.leafground.com/pages/Link.html");

        driver.findElement(By.partialLinkText("Home Page")).click();

        //driver.findElement(By.linkText("Go to Home Page")).click();

    }

}
```

Link Advance

```
package Selenium;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class LinkAdvance {

    public static void main(String[] args) {
        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.navigate().to("https://leafground.com/link.xhtml");

        driver.findElement(By.linkText("Go to Dashboard")).click();
        driver.navigate().back();

        String getAddress = driver.findElement(By.partialLinkText("Find the
URL")).getAttribute("href");
        System.out.println(getAddress);

        WebElement BrokenLink = driver.findElement(By.linkText("Broken?"));
        BrokenLink.click();

        String brokenLinkTitle = driver.getTitle();
        System.out.println(brokenLinkTitle);

        if(brokenLinkTitle.contains("404")) {
            System.out.println("The Link is broken...");
        }
        else {
            System.out.println("The Link is not broken...");
        }

        driver.navigate().back();
        driver.navigate().refresh();
        List<WebElement> totalLink = driver.findElements(By.tagName("a"));
        int total = totalLink.size();
        System.out.println(total);

    }

}
```


Radio Button

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class RadioButton {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.leafground.com/pages/radio.html");

        driver.findElement(By.id("yes")).click();

        WebElement status1 =
driver.findElement(By.xpath("//*[@id='contentblock']/section/div[2]/div/div/input[1]"));
        WebElement status2 =
driver.findElement(By.xpath("//*[@id='contentblock']/section/div[2]/div/div/input[2]"));

        System.out.println("Status1 " + status1.isSelected());
        System.out.println("Status2 " + status2.isSelected());

        driver.findElement(By.name("age")).click();

        //driver.quit();
    }

}
```

Selectable

```
package Selenium;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;

public class Selectable {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.automationtestinginsider.com/2019/08/textarea-textarea-
element-defines-multi.html");

        List<WebElement> select = driver.findElements(By.xpath("//*[@id='post-body-
7988417473080013803']/div[1]/center/select[1]/option"));
        int size = select.size();
        System.out.println("The total lis items are: " + size);

        Actions action = new Actions(driver);
        action.keyDown(Keys.CONTROL)
            .click(select.get(0))
            .click(select.get(1))
            .build().perform();

        /*
        Actions act = new Actions(driver);
        act.clickAndHold(select.get(0));
        act.clickAndHold(select.get(1));
        act.build().perform();
        */

    }

}
```

Sortable

```
package Selenium;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;

public class Sortable {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.navigate().to("https://leafground.com/sortable.html");

        List<WebElement> totalLI = driver.findElements(By.xpath("//*[@id='sortable']/li"));

        WebElement from = totalLI.get(6);
        WebElement to = totalLI.get(0);

        Actions action = new Actions(driver);

        action.clickAndHold(from);
        action.moveToElement(to);
        action.release();
        action.build().perform();

    }

}
```

Table

```
package Selenium;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Table {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://money.rediff.com/losers/bse/daily/groupall");

        String text =
driver.findElement(By.xpath("//table[@class='dataTable']/tbody/tr[2]/td[4]")).getText();
        System.out.println(text);

        List<WebElement> alltext =
driver.findElements(By.xpath("//table[@class='dataTable']/tbody/tr[1]"));

        for (int i = 0; i < alltext.size(); i++) {
            System.out.println(alltext.get(i).getText());
        }

        System.out.println("\n.....\n");

        /*

        List<WebElement> alltext2 =
driver.findElements(By.xpath("//table[@class='dataTable']/tbody/tr/td[1]"));

        for (int i = 0; i < alltext2.size(); i++) {
            System.out.println(alltext2.get(i).getText());
        }

        List<WebElement> alltext3 =
driver.findElements(By.xpath("//table[@class='dataTable']/tbody/tr/td"));

        for (int i = 0; i < alltext3.size(); i++) {
```

```

        System.out.println(alltext3.get(i).getText());
    }

    */

    List<WebElement> companyNames =
driver.findElements(By.xpath("//table[@class='dataTable']/tbody/tr/td[1]"));
    List<WebElement> currentPrice =
driver.findElements(By.xpath("//table[@class='dataTable']/tbody/tr/td[4]"));

    for (int i = 0; i < companyNames.size(); i++) {

        if(companyNames.get(i).getText().equalsIgnoreCase("Swiss Military Consu"))
    {

        System.out.println(currentPrice.get(i).getText());

    }

    }

}

}

```

Tool Tips

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class ToolTips {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://leafground.com/pages/tooltip.html");

        System.out.println(driver.findElement(By.id("age")).getAttribute("title"));

    }

}
```

Upload File

```
package Selenium;

import java.awt.AWTException;
import java.awt.Robot;
import java.awt.Toolkit;
import java.awt.datatransfer.StringSelection;
import java.awt.event.KeyEvent;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class UploadFile {

    public static void main(String[] args) throws AWTException, InterruptedException {

        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://leafground.com/file.xhtml");

        driver.findElement(By.id("j_idt88:j_idt89")).click();
        Thread.sleep(3000);

        String fileLocation = "C:\\Users\\Admin\\Downloads\\Application-form-for-
Academic-Transcript.doc";
        StringSelection select = new StringSelection(fileLocation);

        Toolkit.getDefaultToolkit().getSystemClipboard().setContents(select, null);

        Robot robo = new Robot();
        robo.keyPress(KeyEvent.VK_CONTROL);
        robo.keyPress(KeyEvent.VK_V);
        robo.keyRelease(KeyEvent.VK_V);
        robo.keyRelease(KeyEvent.VK_CONTROL);
        Thread.sleep(3000);
        robo.keyPress(KeyEvent.VK_ENTER);
        robo.keyRelease(KeyEvent.VK_ENTER);

    }

}
```

Windows

```
package Selenium;

import java.util.Set;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Windows {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://leafground.com/pages/Window.html");

        String oldWindow = driver.getWindowHandle();

        WebElement Button = driver.findElement(By.id("home"));
        Button.click();

        Set<String> windows = driver.getWindowHandles();

        for (String win : windows) {

            driver.switchTo().window(win);

        }

        WebElement nextWindow = driver.findElement(By.xpath("//*[@id='post-153']/div[2]/div/ul/li[2]/a"));
        nextWindow.click();

        driver.close();

        driver.switchTo().window(oldWindow);

        driver.findElement(By.xpath("//*[@id='contentblock']/section/div[2]/div/div/button")).click();

        int no_of_windows = driver.getWindowHandles().size();
        System.out.println("The number of windows: " + no_of_windows);

        Set<String> allWindows = driver.getWindowHandles();
```



```
    for (String k : allWindows) {  
        if(!k.equals(oldWindow)) {  
            driver.switchTo().window(k);  
            driver.close();  
        }  
    }  
  
    driver.quit();  
}  
  
}
```

Calender

```
package Selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Calender {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("http://www.booknow.lk/");

        driver.findElement(By.id("checkin")).sendKeys("17/08/2022" + Keys.ENTER);

        driver.findElement(By.xpath("//a[@title='Next']")).click();

        driver.findElement(By.xpath("//a[contains(text(),'10')]")).click();

    }

}
```