

Auto Suggestion

Program :

```
package AdvSel;
```

```
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 AutoSugesstion {
```

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

```
        System.setProperty("webdriver.chrome.driver", "chromedriver");
```

```
        WebDriver driver = new ChromeDriver();
```

```
        driver.manage().window().maximize();
```

```
        driver.get("https://www.google.co.in/");
```

```
        driver.findElement(By.xpath("//input[@name='q']")).sendKeys("seleni");
```

```
        Thread.sleep(1000);
```

```
        List<WebElement> autoSugEle =
```

```
driver.findElements(By.xpath("//ul[@role='listbox']/li"));
```

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

```
            System.out.println(autoSugEle.get(i).getText());
```

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

```
        {
```

```
            if(autoSugEle.get(i).getText().equals("selenium webdriver"))
```

```
            { //selenium.equals("selenium webdriver")
```

```
                //other than string comparison ==
```

```
//                String str = "ABC";
```

```
//                String str1 = new String("XYZ");
```

```
                //String compare .equals()
```

```
                autoSugEle.get(i).click();
```

```
                break;
```

```
            }
```

```
        }
```

```
        Thread.sleep(5000);
```

```
        driver.close();
```

```
    }
```

```
}
```

Handle web table

Program :

```
package AdvSel;
```

```
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 HandleWebtable {
```

```
    public static void main(String[] args) {
        System.setProperty("webdriver.chrome.driver", "chromedriver");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        /*driver.get("https://money.rediff.com/index.html");
        List<WebElement> tableRows =
driver.findElements(By.xpath("//div[@class='hmbseindicestable show']/ul"));
        for(int i=0;i<tableRows.size();i++)
            System.out.println(tableRows.get(i).getText());          */

        driver.get("https://money.rediff.com/indices?src=moneyhome_bseIndices_more");
        driver.findElement(By.xpath("//a[@id='showMoreLess']")).click();
        List<WebElement> tableRows =
driver.findElements(By.xpath("//table[@class='dataTable']/tr"));
        for(int i=0;i<tableRows.size();i++)
            System.out.println(tableRows.get(i).getText());

        driver.close();
    }
}
```

Multiple Browser

Program :

```
package AdvSel;
```

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.opera.OperaDriver;
import org.openqa.selenium.safari.SafariDriver;
```

```

import io.github.bonigarcia.wdm.WebDriverManager;

public class MultipleBrowser {

    static WebDriver driver;

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

        String browser = "opera";

        if(browser.equals("chrome"))
        {
            WebDriverManager.chromedriver().setup();
            driver = new ChromeDriver();
        }
        else if(browser.equals("firefox"))
        {
            WebDriverManager.firefoxdriver().setup();
            driver = new FirefoxDriver();
        }
        else if(browser.equals("edge"))
        {
            WebDriverManager.edgedriver().setup();
            driver = new EdgeDriver();
        }
        else if(browser.equals("opera"))
        {
            WebDriverManager.operadriver().setup();
            driver = new OperaDriver();
        }
        else
        {
            driver = new SafariDriver();
        }

        driver.manage().window().maximize();
        driver.get("https://www.google.co.in/");
        Thread.sleep(3000);
        driver.close();

    }

}

```

Exception in Selenium

Which exception you get in your automation career?

1. Not connected

When selenium jar file is unable to interact with browser we will get not connected exception

2. Unhandled alert exception

If we try to perform action on browser without handling alert popup we will get unhandled alert exception

3. Unexpected tagname exception

If we try to handle customize listbox using select class we will get unexpected tagname exception

4. No alert present exception

If we try to perform actions other popup using alert popup, alert popup not present still we try to access

5. Illegal state exception

If we wrongly enter system.setProperty, it happens when we try to enter wrong properties

6. Webdriver exception

When URL is not correct in get function

7. Unreachable browser exception

When we interrupt the browser while running the script, as it supports one operation at a time

8. No such element

- When we wrongly used html code to identify an element
- Because of synchronization (due to low speed of internet)
- Element is present but in frame

9. Invalid element state exception

If we try to handle disabled element

10. Unsupported operation exception

If we try to deselect option on single selectable list box then we will get

11. Stale element exception

Stale means old or no longer available element. If DOM changes the element goes stale when we try to find element on web page

- Element has been deleted entirely
- Element is no longer attached to DOM
- First deleted then created again