Automation Testing

Locators

```java
package mavenproject1.MavenProject1;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.By;
public class SeleniumLocatorClass {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver","C:\\Users\\hp-
pc\\Training\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        Thread.sleep(100);
        driver.get("https://rahulshettyacademy.com/locatorspractice/");
        driver.findElement(By.id("inputUsername")).sendKeys("bhavya");
        driver.findElement(By.name("inputPassword")).sendKeys("pass");
        driver.findElement(By.className("signInBtn")).click();
        Thread.sleep(1000);

    System.out.println(driver.findElement(By.cssSelector("p.error")).getText())
;
        driver.findElement(By.linkText("Forgot your password?")).click();
        Thread.sleep(1000);

    driver.findElement(By.xpath("//input[@placeholder='Name']")).sendKeys("Bhav
i");

    driver.findElement(By.cssSelector("input[placeholder='Email']")).sendKeys("
bhavi@sha.com");

    driver.findElement(By.xpath("//form/input[3]")).sendKeys("9867855325");
        driver.findElement(By.cssSelector(".reset-pwd-btn")).click();

    System.out.println(driver.findElement(By.cssSelector(".infoMsg")).getText()
);
        driver.findElement(By.xpath("//div[@class='forgot-pwd-btn-
conainer']/button[1]")).click();
        Thread.sleep(1000);

    driver.findElement(By.cssSelector("#inputUsername")).sendKeys("bhavya");

    driver.findElement(By.cssSelector("input[type*='pass']")).sendKeys("rahulsh
ettyacademy");
        driver.findElement(By.id("chkboxOne")).click();

    driver.findElement(By.xpath("//button[contains(@class,'submit')]")).click()
;
        driver.close();

    }

}
```

Static Dropdown

```java
package mavenproject1.MavenProject1;
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 StaticDropdownClass {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver","C:\\Users\\hp-
pc\\Training\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        String url =
"https://www.rahulshettyacademy.com/dropdownsPractise/";
        driver.get(url);
        WebElement staticdropdown =
driver.findElement(By.xpath("//*[@id='ctl00_mainContent_DropDownListCurrency']"));
        Select dropdown = new Select(staticdropdown);
        dropdown.selectByIndex(3);
        WebElement selectedElement=dropdown.getFirstSelectedOption();
        System.out.println(selectedElement.getText());
        dropdown.selectByVisibleText("AED");
        System.out.println(dropdown.getFirstSelectedOption().getText());
        dropdown.selectByValue("INR");
        System.out.println(dropdown.getFirstSelectedOption().getText());
        driver.close();

    }

}
```

Autosuggest Dropdown

```java
package mavenproject1.MavenProject1;
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 AutosuggestDropdownClass {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-
pc\\Training\\chromedriver_win32\\chromedriver.exe");

        // Create a new instance of the Chrome driver
        WebDriver driver = new ChromeDriver();

        //get URL
        driver.get("https://rahulshettyacademy.com/dropdownsPractise/");

        //Find element and send key
        driver.findElement(By.id("autosuggest")).sendKeys("ind");
        Thread.sleep(3000);
```

```java
            //get all options
            List<WebElement> options
=driver.findElements(By.cssSelector("a[class='ui-corner-all']"));


            for(WebElement option :options)
            {
                    if(option.getText().equalsIgnoreCase("India"))
                    {
                                option.click();
                                break;
                    }
            }
            //Thread.sleep(1000);
            //driver.findElement(By.xpath("//a[text()=\"India\"]")).click();
            //driver.close();

    }

}
```

CheckBox

```java
package mavenproject1.MavenProject1;
import java.util.List;
import java.util.concurrent.TimeUnit;
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.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
public class CheckBoxClass {

    public static void main(String[] args) throws InterruptedException {
            // TODO Auto-generated method stub
            System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-
pc\\Training\\chromedriver_win32\\chromedriver.exe");

        // Create a new instance of the Chrome driver
            WebDriver driver = new ChromeDriver();
            driver.get("http://demo.guru99.com/test/radio.html");
            Thread.sleep(3000);

            List<WebElement>
checkbox=driver.findElements(By.xpath("//*[@type='checkbox' and
@name='webform']"));
            int size=checkbox.size();
            System.out.println(size);
            for(int i=0; i<size; i++) {


        if(checkbox.get(i).getAttribute("value").contains("checkbox2")) {
                        System.out.println("Inside loop");

                        checkbox.get(i).click();
                        System.out.println("Clicked Checkbox");
```

```
                    break;
                }

            }

            //driver.close();

        }

}




RadioButton

package mavenproject1.MavenProject1;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
public class RadioButtonClass {

        public static void main(String[] args) throws InterruptedException {
                // TODO Auto-generated method stub
                System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-
pc\\Training\\chromedriver_win32\\chromedriver.exe");

            // Create a new instance of the Chrome driver
                WebDriver driver = new ChromeDriver();

                driver.get("http://demo.guru99.com/test/radio.html");
                Thread.sleep(3000);
                //check that option1 button is not selected
                Assert.assertFalse(driver.findElement(By.id("vfb-7-
1")).isSelected());
                System.out.println(driver.findElement(By.id("vfb-7-
1")).isSelected());
                //click button
                driver.findElement(By.id("vfb-7-1")).click();

                //isSelected will return true or false value
                System.out.println(driver.findElement(By.id("vfb-7-
1")).isSelected());

                //check that option1 button is selected
                Assert.assertTrue(driver.findElement(By.id("vfb-7-
1")).isSelected());
                driver.close();

        }

}
```

Alert

```java
package mavenproject1.MavenProject1;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class SeleniumAlertClass {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-pc\\Training\\chromedriver_win32\\chromedriver.exe");

        // Create a new instance of the Chrome driver
        WebDriver driver = new ChromeDriver();

        String text= "Bhavya";

        //get URL
        driver.get("https://rahulshettyacademy.com/AutomationPractice/");
        Thread.sleep(1000);

        //Send name
        driver.findElement(By.id("name")).sendKeys(text);

        //click on alert button
        driver.findElement(By.cssSelector("[id='alertbtn']")).click();

        //Get text
        System.out.println(driver.switchTo().alert().getText());

        //Accept alert by clicking on OK button
        driver.switchTo().alert().accept();

        //Click on confirm button
        driver.findElement(By.id("confirmbtn")).click();

        //Get text
        System.out.println(driver.switchTo().alert().getText());
        //Dismiss alert by clicking on cancel
        driver.switchTo().alert().dismiss();
        driver.close();

    }

}
```

Multiple tab

package mavenproject1.MavenProject1;

import java.util.Iterator;

import java.util.Set;

import org.openqa.selenium.By;

```java
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class MultipleTabClass {


    public static void main(String[] args) {

        // TODO Auto-generated method stub

        System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-pc\\Training\\chromedriver_win32\\chromedriver.exe");


    // Create a new instance of the Chrome driver

        WebDriver driver = new ChromeDriver();


        //get URL

        driver.get("https://rahulshettyacademy.com/loginpagePractise/#");


        //Click on blinking text link

        driver.findElement(By.cssSelector(".blinkingText")).click();


        //Get all windows

        Set<String> windows = driver.getWindowHandles(); //[parentid,childid,subchildId]


        //Get parent and child window id

        Iterator<String>it = windows.iterator();

        String parentId = it.next();

        String childId = it.next();


        //switch to child window

        driver.switchTo().window(childId);
```

```java
        //Get Text

        System.out.println(driver.findElement(By.cssSelector(".im-para.red")).getText());



        //Swich to parent window

        driver.switchTo().window(parentId);



        //Send emailid in username textbox

        driver.findElement(By.id("username")).sendKeys("bhavya@gmail.com");

        //driver.close();

    driver.quit();



    }
}
```

Action class

```java
package mavenproject1.MavenProject1;

import java.util.concurrent.TimeUnit;

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.Action;

import org.openqa.selenium.interactions.Actions;

public class ActionExample {


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

```java
// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-pc\\Training\\chromedriver_win32\\chromedriver.exe");

// Create a new instance of the Chrome driver
WebDriver driver = new ChromeDriver();

driver.get("http://www.facebook.com/");

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS); //wait

WebElement txtUsername = driver.findElement(By.id("email"));

Actions builder = new Actions(driver);
Action seriesOfActions = builder
        .moveToElement(txtUsername) //move to element
        .click() //click
        .keyDown(txtUsername, Keys.SHIFT) //send input in capital, so hold shift keys
        .sendKeys(txtUsername, "hello") //send keys
        .keyUp(txtUsername, Keys.SHIFT) //release shift key
        .doubleClick(txtUsername) //double click
        .contextClick() //right click
        .build(); //build

seriesOfActions.perform() ; //perform action
driver.close();
```

```
        }


}
```

Frame

```java
package mavenproject1.MavenProject1;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.NoSuchElementException;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class SeleniumFrameClass {


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

                // TODO Auto-generated method stub

                System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-
pc\\Training\\chromedriver_win32\\chromedriver.exe");


        // Create a new instance of the Chrome driver

                WebDriver driver = new ChromeDriver();


                //Get URl

        driver.get("http://demo.guru99.com/test/guru99home/");


        //Maximize window

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


        //Javascript executor for scrolling down
```

```java
        JavascriptExecutor js = (JavascriptExecutor) driver;


    js.executeScript("window.scrollBy(0,2000)");

    //Switch to frame

    driver.switchTo().frame("a077aa5e"); //Switching to the frame


    System.out.println("We are switched to the iframe");


    //Thread.sleep(1000);


        driver.findElement(By.xpath("/html/body/a")).click();


        //switch to original page

    driver.switchTo().defaultContent();
        //Clicking the element in line with Advertisement
    System.out.println("We are done");


    //driver.close();

    //driver.quit();


    }


}
```

Table

```java
package mavenproject1.MavenProject1;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;
```

```java
import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class TableClass {


        public static void main(String[] args) {

                // TODO Auto-generated method stub

                int sum=0;

                // System Property for chrome Driver

            System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp-
pc\\Training\\chromedriver_win32\\chromedriver.exe");


                // Create a new instance of the Chrome driver

                WebDriver driver = new ChromeDriver();


                driver.get("http://www.cricbuzz.com/live-cricket-scorecard/18970/pak-vs-sl-2nd-
t20i-pakistan-v-sri-lanka-in-uae-2017");


                WebElement table=driver.findElement(By.cssSelector("div[class='cb-col cb-col-100
cb-ltst-wgt-hdr']"));


                int rowcount= table.findElements(By.cssSelector("cb-col cb-col-100 cb-scrd-
itms")).size();


                //find count of R coloumn

                int count=table.findElements(By.cssSelector("div[class='cb-col cb-col-100 cb-scrd-
itms'] div:nth-child(3)")).size();


                //sum of R col

                for(int i=0;i<count-2;i++)
```

```
{

String value=table.findElements(By.cssSelector("div[class='cb-col cb-col-100 cb-scrd-itms'] div:nth-child(3)")).get(i).getText();

int valueinteger=  Integer.parseInt(value);

sum=sum+valueinteger;//103

}

//System.out.println(sum);


//print value of Extra

String Extras=driver.findElement(By.xpath("//div[text()='Extras']/following-sibling::div")).getText();

int extrasValue=Integer.parseInt(Extras);


//calculate total value

int TotalSumValue=sum+extrasValue;

System.out.println(TotalSumValue);


//actual value of total

String ActualTotal=driver.findElement(By.xpath("//div[text()='Total']/following-sibling::div")).getText();

int ActualTotalVAlue=Integer.parseInt(ActualTotal);


//Assert

if(ActualTotalVAlue==TotalSumValue)

{

System.out.println("Count Matches");

}

else

{
```

```java
            System.out.println("count fails");

        }



        driver.close();


    }


}
```