#### Web elements and its methods

It is an interface used to perform action on element present in browser

#### Methods of web elements

### a) sendKeys

It is used to enter value in text field or input field driver.findElement(By.xpath(" ").sendKeys("aaa");

# b) click

It is used to select radio button, checkbox, click the link and click button driver.findElement(By.xpath(" ").click();

## c) getText

```
It is used to get text present on web page and its return type is string
String text = driver.findElement(By.xpath(" ")).getText();
```

webElement ele1 = driver.findElement(By.xpath(" "));

String text = ele1.getText();

When we have to apply multiple actions on same element then identify once and use multiple times.

### **Program:**

//

```
package SimpleSeleniumProg;
import org.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.WebElement;
import org.openga.selenium.chrome.ChromeDriver;
public class AutomateRediff {
      public static void main(String[] args) {
             System.setProperty("webdriver.chrome.driver", "chromedriver");
             WebDriver driver = new ChromeDriver∩;
             driver.manage().window().maximize();
             driver.get("https://is.rediff.com/signup/register");
             //div[@id='div_register']//b OR //b[text()='New User? Register here']
             //p[@class='grey1']
```

```
WebElement tellUsLabel =
driver.findElement(By.xpath("//p[@class='grey1']"));
              String str1 = newuserLabel.getText();
//
             String str2 = tellUsLabel.getText();
//
```

WebElement newuserLabel = driver.findElement(By.xpath("//div[@id='div\_register']//b"));

```
System.out.println(str1);
//
              System.out.println(str2);
//
              System.out.println("Label 1 = " + newuserLabel.getText());
              System.out.println("Label 2 = " + tellUsLabel.getText());
              driver.close();
       }
}
```

## How we can get the status of element??????????

## d) isDisplayed

It is used to verify weather element is present or not, if element is present on webpage it return true else return false

#### e) IsEnabled

It used to verify weather element is enabled or disable, if element enable return true else return false

# f) isSelected

It used to verify weather radio button or checkbox selected or not

## **Program:**

```
Link:-http://megrecruitment.nic.in/rpa/register.htm
package SimpleSeleniumProg;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class Prog6 {
      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://chercher.tech/practice/explicit-wait");
             WebElement button =
driver.findElement(By.xpath("//button[@id='disable']"));
             System.out.println(button.isDisplayed()); //true
             System.out.println(button.isEnabled());
                                                      //false
             System.out.println("-----");\\
             driver.findElement(By.xpath("//button[@id='enable-button']")).click();
             Thread.sleep(10000);
             System.out.println(button.isDisplayed()); //true
```

```
System.out.println(button.isEnabled());
                                                      //true
             WebElement checkBox =
driver.findElement(By.xpath("//input[@type='checkbox']"));
             System.out.println("Before click :- " + checkBox.isSelected());
             Thread.sleep(1000);
             checkBox.click();
             System.out.println("After click :- " + checkBox.isSelected());
             driver.close():
      }
}
Handling of listbox
Step 1:- Identify the list box which needs to be handle and store it in reference variable
WebElement ele1 = driver.findElement(By.xpath("//select[@id="abc"));
Step 2 :- create an object of select class which accept web element argument as input
Select s = new Select(ele1);
Step 3:- To select the option present in list box we need to call the method like
s.selectByVisibleText("Sri");
s.selectByValue("5678");
s.selectByIndex(2);
Get all options present in listbox
Program:
package SimpleSeleniumProg;
import java.util.List;
import org.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;
public class Prog7 {
      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://is.rediff.com/signup/register");
```

```
//
             WebElement newuserLabel =
driver.findElement(By.xpath("//div[contains(text(),'Your F')]"));
             String expLabel = "Your Full name";
//
//
             String actLabel = newuserLabel.getText();
//
             if(expLabel.equals(actLabel))
//
                    System.out.println("Label TC pass");
//
//
             else
//
                    System.out.println("Label TC fail");
             WebElement day =
driver.findElement(By.xpath("//select[@id='date_day']"));
             WebElement month =
driver.findElement(By.xpath("//select[@id='date_mon']"));
             WebElement year =
driver.findElement(By.xpath("//select[@name='Date Year']"));
             Select s1 = new Select(day);
              /*s1.selectByIndex(7);
             Thread.sleep(2000);
             s1.selectByIndex(0);
             Thread.sleep(2000);
             s1.selectByValue("09"); //If value attribute is available in html code
             Thread.sleep(2000);
                                         //then we can use selectByValue() method
             s1.selectByVisibleText("05");
             List<WebElement> allDays = s1.getOptions();
             for(int i=1;i<32;i++)
                     System.out.println(allDays.get(i).getText());
             System.out.println("----");
             for(int i=1;i<allDays.size();i++)</pre>
                    System.out.println(allDays.get(i).getText());
//
             Thread.sleep(5000);
              driver.close();
      }
}
```