**Actions Class :**

Actions class Methods

1)moveToElement()

2)click()

3)doubleClick()

4)contextClick()

5)perform()

6)sendKeys()

7)dragAndDrop()

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1)moveToElement():

if we want to move mouse pointer from one position to another position that time we use

method moveToElement().

Program:

package Actions\_class;

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 ActionsMoveToElementDemo {

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

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

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

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

Thread.sleep(2000);

WebElement a = driver.findElement(By.linkText("Gmail"));

Actions b = new Actions(driver);

b.moveToElement(a).build().perform();

}

}

------------------------------------------------------------------------

2)click()

This method is used for click on particular web element

Program:

package Actions\_class;

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 ActionsClickDemo {

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

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

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

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

Thread.sleep(2000);

WebElement a = driver.findElement(By.linkText("Gmail"));

Actions b = new Actions(driver);

b.click(a).build().perform();

}

}

----------------------------------------------------------------------

3)doubleClick()

This method is used for doubleClick on particular web element

Program:

package Actions\_class;

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 ActionsDoubleClickME {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("http://www.uitestpractice.com/Students/Actions");

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

WebElement doubleClick = driver.findElement(By.name("dblClick"));

Actions actions=new Actions(driver);

actions.doubleClick(doubleClick).build().perform();

}

}

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4)contextClick()

This method is used for right click on particular web element

Program:

package Actions\_class;

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 ActionsContextClickDemo {

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

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

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

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

Thread.sleep(2000);

WebElement a = driver.findElement(By.linkText("Gmail"));

Actions b = new Actions(driver);

b.contextClick(a).build().perform();

}

}

-----------------------------------------------------------------

5)perform()

This method is used for perform action on particular web element

Program:

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

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

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

Thread.sleep(2000);

WebElement a = driver.findElement(By.linkText("Gmail"));

Actions b = new Actions(driver);

b.contextClick(a).build().perform();

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6)sendKeys()

Syntax:

Actions\_class\_object . sendKeys(Keys.ARROW\_UP).build().perform();

Two way for using sendKeys() method

1)b.sendKeys(Keys.ARROW\_DOWN).build().perform();

Program:1:

package Selenium\_Actions\_Class;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

public class KeysClassDemo2 {

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

System.setProperty("webdriver.chrome.driver", "E:/Soft/chrome\_driver2/chromedriver.exe");

WebDriver driver =new ChromeDriver();

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

driver.get("http://www.amazon.in/");

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

Thread.sleep(2000);

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

Thread.sleep(2000);

Actions a = new Actions(driver);

for(int i=7;i>=0;i--) {

a.sendKeys(Keys.ARROW\_DOWN).build().perform();

Thread.sleep(2000);

}

Thread.sleep(2000);

for(int i=0;i<=6;i++) {

a.sendKeys(Keys.ARROW\_UP).build().perform();

Thread.sleep(2000);

}

}

}

Program :2:

package Actions\_class;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

public class KeysClassTabDemo {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

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

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

driver.findElement(By.name("email")).sendKeys("8329080292");

Actions actions=new Actions(driver);

actions.sendKeys(Keys.TAB).build().perform();

// driver.findElement(By.name("pass")).sendKeys("Sandip@123");

}

}

-------------------------------------------------------------------------

2)b.sendKeys(target, Keys.TAB).build().perform();

Program:

package Actions\_class;

import org.openqa.selenium.Alert;

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 KeysClassEnterDemo {

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

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("http://www.uitestpractice.com/Students/Actions");

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

Actions actions=new Actions(driver);

// actions.sendKeys(Keys.END)

// .perform();

//

// Thread.sleep(2000);

//

// actions.sendKeys(Keys.HOME)

// .perform();

actions.sendKeys(driver.findElement(By.name("click")),Keys.ENTER).build().perform();

Thread.sleep(2000);

Alert alt = driver.switchTo().alert();

alt.accept();

// driver.quit();

}

}

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3)b.sendKeys(Keys.ENTER).build().perform();

Program:

package actionsClass;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

public class KeysClassEnterDemo {

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

System.setProperty("webdriver.chrome.driver", "E:/Soft/a/chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("http://www.uitestpractice.com/Students/Actions");

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

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

Thread.sleep(2000);

Actions actions=new Actions(driver);

actions.sendKeys(Keys.ENTER).build().perform();

Thread.sleep(2000);

}

}

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Methods of Keys Class

1)ARROW\_UP

2)ARROW\_DOWN

3)ARROW\_LEFT

4)ARROW\_RIGHT

5)ENTER

6)TAB

----------------------------------------------------------------------

7)dragAndDrop()

This method is used for drag one web element and drop to another position .

Program:

package Actions\_class;

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 ActionsDragAndDropDemo {

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

System.setProperty("webdriver.chrome.driver", "D:/aaa/Chrome driver/chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("http://www.uitestpractice.com/Students/Actions");

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

Thread.sleep(2000);

WebElement source = driver.findElement(By.id("draggable"));

WebElement destination = driver.findElement(By.id("droppable"));

Actions a = new Actions(driver);

a.dragAndDrop(source, destination).build().perform();

}

}