**Locators**

**Types of Locator**

1)tagName()

2)id()

3)name()

4)className()

5)linkText()

6)partialLinkText

7)xpath

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**1)tagName():**

tagName is method of By class,in this method we need to put tagName of particular element.

Program:

package selenium;

import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.Point;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class Demo {

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

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

WebDriver driver=new ChromeDriver();

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

Thread.sleep(2000);

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

Thread.sleep(2000);

driver.findElement(By.tagName("a")).click();

}

}

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**2)id()**

driver.findElement(By.id("email")).sendKeys("836543");

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**3)name()**

driver.findElement(By.name("email")).sendKeys("836543");

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**4)className()**

driver.findElement(By.className("gb\_f")).click();

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**5)linkText()**

driver.findElement(By.linkText("Images")).click();

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**6)partialLinkText()**

driver.findElement(By.partialLinkText("Im")).click();

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**7)xpath**

**1)X-path by attribute**

**2)X-path by text**

**3)x-path by contains**

**4)x-path by index**

**5)Absolute x path**

**6)Relative x path**

**1)X-path by attribute**

Syntax:

driver.findElement(By.xpath("//tagname[@attributename='attributevalue']"));

Ex:

driver.findElement(By.xpath("//a[@class='gb\_g']"));

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

**2)X-path by text**

Syntax:

driver.findElement(By.xpath("//tagname[text()='textname']"));

Ex;

Syntax:

driver.findElement(By.xpath("//a[text()='Gmail']"));

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

**3)x-path by contains**

Syntax:

driver.findElement(By.xpath("//tagname[contains(text(),'textname')]"));

Ex:

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

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

**4)x-path by index**

Syntax:

driver.findElement(By.xpath("//tagname[@attributename='attributevalue'][index]"));

Ex:

driver.findElement(By.xpath("//a[@class='gb\_g'][2]"));

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

**5)Absolute x path :**

1)In this focus is on the html tag

/html/head/body/div[4]/input[3]

2)Each tag are separated by / (slash)

3)It is use to navigate from root of parent to immediate child.

**Disadvantages**

1)X path is too long and time consuming

2)Developing html tree diagram is difficult.

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**6)Relative x path :**

1)In this focus is on the html tag

//body//div[4]//input[3]//a

2)Each tag are seperated by // (slash)

3)It is use to navigate from any parent to immediate child.

**Disadvantages**

1)X path is too long and time consuming

2)Developing html tree diagram is difficult