

a) Relative xpath

Navigating from any point and to achieve this we need to use double forward slash "//"

i) xpath by attribute

//tagname[@attribute name = 'attribute value']

Ex. //input[@id="1234"]. --> xpath expression

WebElement fname =

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

j) xpath by text

//tagname[text() = 'text value']

Ex. //a[text() = "link1"] => For link

//input[text() = "login"]

```
WebElement femaleLabel = driver.findElement(By.xpath("//label[text()='Female']"));
```

k) xpath by contains

How to identify dynamic elements????????????????

//tagname[contains(@attribute_name, 'attribute_value')]

Ex. //input[contains(@type, 'password']

subtext (constant text)

WebElement f1 =

```
driver.findElement(By.xpath("//input[contains(@name,'firstname')]"));
```

l) xpath by index

//Use index in worst case scenario

For multiple matching we use index

(xpath expression)[index]

Ex. (//input[@type="text"])[1] OR [2]

WebElement fname2 =

```
driver.findElement(By.xpath("(//input[@type='text'])[1]"));
```

CSS

#idname

.classname

input[id='fullname']

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();
```

Program :

```
package SimpleSeleniumProg;
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
```

```
public class Prog5 {
```

```
    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");
```

```
        //xpath by attribute
        WebElement rediffSmallLogo =
driver.findElement(By.xpath("//img[@class='halflogo']"));
```

```
        //xpath by text
        WebElement rediffLink =
driver.findElement(By.xpath("//a[text()='rediff.com']"));
```

```
        //xpath by contains
        WebElement fullnameTextbox =
driver.findElement(By.xpath("//input[contains(@name,'full')]"));
        //for dynamic element
        //input[contains(@name,'login')]
        //URL :-
https://register.rediff.com/register/register.php?FormName=user_details
```

```
        //xpath by index
        //(//input[contains(@name,'name')])[1]
```

```
        //(//input)[3]
```

```
        //*[@id="fullname"]
```

```
    }
```

```
}
```