1. **ID**

* By.id(“Value”)

driver.findElement(By.id("inputUsername")).sendKeys("Admin");

1. **LinkText**

* By.Linktext(“Value”)

driver.findElement(By.linkText("Forgot your password?")).click();

1. **Xpath 🡪 Put it in double coots “”**

**\* What is absolute x path: we shall start from the main parent. Root object.**

**Start with single slash -- /**

**\* What is relative x path: we can directly jump on the middle of some where**

**Start with double slash -- //**

* $x('//Tagname[@Attribute="Value"]') 🡪 if you want to validate it through the console
* //Tagname[@Attribute='Value']
* //Tagname[@Attribute='Value'][Index] 🡪 Not much recommended
* //ParentTagname/ChildTagname 🡪 if single
* //ParentTagname/ChildTagname[Index] 🡪 if multiple to differ
* //Tagname[contains(text(),'value')] 🡪 Contains represents the regular expression.
* //ParentTagname[@attribute='value']/ChildTagname[Index]
* //Tagname[text()='value of text']
* **Sibling to Sibling concept in xpath: It is not available in the css**

//ParentTagname/Childtagname/following-sibling::**siblingtagname**

* **Child to parent concept in xpath: it is not available in the css**

//ParentTagname/Childtagname/parent::parenttagname

* **Parent Child relationship to find object uniquely xpath:**

//ParentTagname[@attribute=’Value’] //ChildTagname[@attribute=’Value’]

1. **Name**

* By.name(“Value”)

driver.findElement(By.name("inputPassword")).sendKeys("rahulshettyacademy1");

1. **Class Name**

* By.classname(“value”)

driver.findElement(By.className("signInBtn")).click();

1. **CssSelector** 🡪 Which we need to construct for the html code. It is generic locator

* $('input[placeholder="Name"]') 🡪 if you want to validate it through the console
* tagname.classname
* tagname#id
* tagname#name
* Tagname[attribute='value']
* Tagname[attribute='value']:nth-child(Index) 🡪 it might differ from xpath some times. Because it takes the hidden value also.
* ParentTagname ChildTagname 🡪 if single
* Tagname[attribute\*='value'] 🡪 star represents the regular expressions.

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**RELATIVE LOCATORS**

// Below are the Relative Locators

// above(): Element located above with respect to the specified element

// Below(): Element located below with respect to the specified element

// toLeftOf(): Element located to the left of specified element

// toRightOf(): Element located to the right of specified element

//You can find the relative locator webelement only with its "TagName"

//Below is the syntax

// driver.findElement(with TagName("XX").above(WebElement))

//Befor starting the relative locator we need to import the below static package as is shall not be auto suggested by selenium

// import static org.openqa.selenium.support.locators.RelativeLocator.\*;

WebDriver driver = **new** EdgeDriver();

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

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

//above

WebElement editBoxName = driver.findElement(By.*cssSelector*("[name='name']"));

System.***out***.println(driver.findElement(*with*(By.*tagName*("label")).above(editBoxName)).getText());

//below

WebElement date = driver.findElement(By.*cssSelector*("label[for\*='date']"));

driver.findElement(*with*(By.*tagName*("input")).below(date)).click();

//left

WebElement description = driver.findElement(By.*xpath*("//label[text()='Check me out if you Love IceCreams!']"));

driver.findElement(*with*(By.*tagName*("input")).toLeftOf(description)).click();

//right

WebElement text = driver.findElement(By.*xpath*("//label[text()='Student']"));

driver.findElement(*with*(By.*tagName*("label")).toRightOf(text)).click();

**TimeOut:**

* **driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));**
* **Thread.sleep(1000); 🡪 1000 second means 1 min**

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

**driver.findElement(By.cssSelector("input[placeholder='Email']")).sendKeys("Admin");**

**driver.findElement(By.cssSelector("input[placeholder='Email']")).clear();**

**driver.findElement(By.cssSelector("input[placeholder='Email']")).sendKeys("Sujit@gmail.com");**

**driver.findElement(By.cssSelector("input[placeholder='Phone Number']")).sendKeys("123456789");**

**driver.findElement(By.className("reset-pwd-btn")).click();**

**System.out.println(driver.findElement(By.className("infoMsg")).getText());**

**driver.findElement(By.className("go-to-login-btn")).click();**

**Thread.sleep(1000);**

**driver.findElement(By.id("inputUsername")).sendKeys("Admin");**

**driver.findElement(By.name("inputPassword")).sendKeys("rahulshettyacademy");**

**driver.findElement(By.id("chkboxOne")).click();**

**driver.findElement(By.cssSelector("button[type='submit']")).click();**