**1) Basic XPath:**

XPath expression select nodes or list of nodes on the basis of attributes like **ID , Name, Classname**, etc. from the XML document as illustrated below.

Xpath=//input[@name='uid']

### 2) Contains():

Contains() is a method used in XPath expression. It is used when the value of any attribute changes dynamically, for example, login information.

The contain feature has an ability to find the element with partial text as shown in below example.

In this example, we tried to identify the element by just using partial text value of the attribute. In the below XPath expression partial value 'sub' is used in place of submit button. It can be observed that the element is found successfully.

Complete value of 'Type' is 'submit' but using only partial value 'sub'.

Xpath=//\*[contains(@type,'sub')]

Complete value of 'name' is 'btnLogin' but using only partial value 'btn'.

Xpath=//\*[contains(@name,'btn')]

Similarly, in the below expression, we have taken the 'id' as an attribute and 'message' as a partial value. This will find 2 elements ('User-ID must not be blank' & 'Password must not be blank') as its 'name' attribute begins with 'message'.

Xpath=//\*[contains(@id,'message')]

### 3) Using OR & AND:

In OR expression, two conditions are used, whether 1st condition OR 2nd condition should be true. It is also applicable if any one condition is true or maybe both. Means any one condition should be true to find the element.

In the below XPath expression, it identifies the elements whose single or both conditions are true.

Xpath=//\*[@type='submit' or @name='btnReset']

Highlighting both elements as "LOGIN " element having attribute 'type' and "RESET" element having attribute 'name'.

In AND expression, two conditions are used, both conditions should be true to find the element. It fails to find element if any one condition is false.

Xpath=//input[@type='submit' and @name='btnLogin']

**In below expression, highlighting 'LOGIN' element as it having both attribute 'type' and 'name'.**

### 5) Text():

In this expression, with text function, we find the element with exact text match as shown below. In our case, we find the element with text "UserID".

Xpath=//td[text()='UserID']