**Types of Locators**

id, name, class name, tag name, link test, partial link test, xpath and css selector

**class name** and **tag name** are mostly using to find multiple web element

**Customized locators**

**//tag name[@attribute=’attribute Value’]**

**and, or Functions**

**text(), normalize-space()**

**index, position, last etc.…**

Xpath => Absolute xpath and relative xpath

Xpath => **or operators** E.g.: //tag name [@attribute=’value’ or @attribute = ‘value’]

Xpath => **and operators** E.g.: //tag name [@attribute=’value’ and @attribute = ‘value’]

Xpath => **contains with method** E.g.: //tag name [contains (@attribute, ‘value’)] **This method is used for finding dynamic web elements, you can provide any partial attribute value to find the web element**

With **contains Method** - //tag name [@attribute='value' and contains(@attribute,'value')]

Xpath => **starts with method** E.g.: //tag name [starts with (@attribute,’value’] -**This method is very helpful in finding dynamic web elements**

Xpath => **text () method** E.g.: //tag name [text () =’Actual Text’] – **This method is used to find element with exact text match**

**Parent, Child, and self-Methods**

**Parent – Selects the parent of the context(current) node**

Xpath Format ://Tag name [@Attribute =’Value’]//parent:Tag name

**Child – Selects all the children of the current node**

Xpath Format ://Tag name [@Attribute =’Value’]//child::Tag name

**Self – Selects the current node**

Xpath Format ://Tag name [@Attribute =’Value’]//self::Tag name

N: B: [normalize-space () means text method

CSS selector =>tag and id or tag and class or tag and attribute or tag class and attribute

**Tag and id** => tag name # value of id (tag name is always optional E.g.: #value of ID)

**Tag name and class** => tag name. Value of class (E.g.: input. abcdef)

**Tag and attribute** => tag name [attribute = value] =>E.g.: input [data-testid = royal\_email] don’t need double quote or single quote for the attribute value

**Tag class and attribute** => tag name .value of class [attribute = value]

**Handling Frames commands**

switch\_to. frame (name of the frame)  
switch\_to. frame(id of the frame)  
switch\_to.frame(web element)  
switch\_to.frame[0]

switch\_to.default\_content ()

**Switching to browsers Commands**

Switch\_to. window (window ID)

driver. current\_window\_handle => This will return window id of single browser window

driver. window\_handles =>This will return window id’s of multiple browser windows