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XPath Expressions - Part 4

- XPath functions: Part2 (Demonstrate at http://compendiumdev.co.uk/selenium/basic_web_page.html)
 - Find the first child of 'body' tag //body/*[1]
 - last() Find the last child of 'body' tag //body/*[last()]
 - Find the first 'p' tag //p[1]
 - last() Find the last 'p' tag //p[last()]
 - Find the last but one 'p' tag //p[last()-1]
 - Locate the last but 2 input tag (//input)[last()-2] (Demonstrate at http://omayo.blogspot.in/)
 - Find second 'p' tag having class 'sub' //p[2][@class='sub']
 - Find the last 'p' tag having class 'sub' //p[last()][@class='sub']
 - Find the last but one 'p' tag having class 'main' //p[last()-1][@class='main']
- XPath functions: Part3 (Demonstrate at http://compendiumdev.co.uk/selenium/basic_web_page.html)
 - position() Find the first 'p' tag //p[position()=1]
 - position() Find the second 'p' tag //p[position()=2]
 - position() Find the 8th input tag (//input)[position()='8'] (Demonstrate at http://omayo.blogspot.in/)
- XPath AXES: (Demonstrate at http://omayo.blogspot.in/)
 - Purpose:
 - If you want to locate an element which doesn't have id/name/class etc., with the help of XPath Axes we can locate such elements not having id/name/class with the help of id/name/class attributes of ancestor/descendant tags.
 - following
 - Purpose: Selects everything in the document after the closing tag of the current node
 - Find all the 'body' tags after the 'head' tag //head/following::body
 - Find all the 'div' tags after //body/div[1]/div //body/div[1]/div/following::div
 - Find the first 'div' after //body/div[1]/div //body/div[1]/div/following::div[1]
 - Find all the 'input' tags after //body/div[1] //body/div[1]/following::input
 - preceding
 - Purpose: Selects all nodes that appear before the current node in the document, except ancestors nodes
 - Find all the 'head' tags before the 'body' tag //body/preceding::head
 - Find all the 'div' tags before //body/div[4] //body/div[4]/preceding::div
 - following-sibling
 - Purpose: Selects all siblings after the current node
 - Find all the 'div' tag siblings after //body/div[1] //body/div[1]/following-sibling::div
 - Find all the 'p' tag siblings after //body/p[1] //body/p[1]/following-sibling::p (Demonstrate at http://compendiumdev.co.uk/selenium/basic_web_page.html)
 - preceding-sibling
 - Purpose: Selects all siblings before the current node
 - Find all the 'div' tag siblings before //body/div[4] //body/div[4]/preceding-sibling::div
 - Find all the 'p' tag siblings before //body/p[2] //body/p[2]/preceding-sibling::p (Demonstrate at http://compendiumdev.co.uk/selenium/basic_web_page.html)
 - parent
 - Purpose: Selects the parent of the current node
 - Find the parent of 'head' tag //head/parent::html
 - Find the parent of 'body' tag //body/parent::html
 - Find the parent of 'title' tag //title/parent::head
 - Find the parent of first 'div' tag inside 'body' tag i.e. //div[1] //div[1]/parent::body
 - child
 - Purpose: Selects all children of the current node
 - Find one of the child tag say 'head' of 'html' tag //html/child::head
 - Find one of the child tag say 'body' of 'html' tag //html/child::body
 - Find one of the child tag say 'title' of 'head' tag //head/child::title
 - Find one of the child tag say first 'div' tag of 'body' tag //body/child::div[1]
 - ancestor
 - Purpose: Selects all ancestors (parent, grandparent, etc.) of the current node
 - Find the ancestor 'html' tag for 'title' tag //title/ancestor::html
 - Find the ancestor 'html' tag for 'head' tag //head/ancestor::html

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- Find the ancestor 'html' tag for 'body' tag //body/ancestor::html
- descendant
 - Purpose: Selects all descendants (children, grandchildren, etc.) of the current node
 - Find the descendant 'title' tag for 'html' tag //html/descendant::title
 - Find the descendant 'head' tag for 'html' tag //html/descendant::head
 - Find the descendant 'body' tag for 'html' tag //html/descendant::body
- Miscellaneous XPath expressions:
 - //html/body//p[@class='sub'] (Demonstrate
 - at http://compendiumdev.co.uk/selenium/basic_web_page.html)
 - Working with a Table: (Demonstrate at http://omayo.blogspot.in/)
 - Finding the entire table //table[@id='table1']
 - Finding all the rows in the table //table[@id='table1']//tr
 - Finding all the table headings in the table //table[@id='table1']//tr//th
 - Finding all the table data in the table //table[@id='table1']//tr//td
 - Finding all the cells in the table //table[@id='table1']//tr//th | //table[@id='table1']//tr//td
 - Finding the 2nd row and 3rd cloumn //table[@id='table1']//tr[2]//td[3]
 - Finding the table cell having text 'Pune' //td[text()='Pune']
 - Using wild cards in XPath Expressions:
 - * //*[@id='radio1']
 - * //*[@*='radio1']
 - node() (Demonstrate at http://compendiumdev.co.uk/selenium/basic web page.html)
 - Absolute XPath without using node() /html/body/p[1]
 - Absolute Xpath after using node() /node()/node()/p[1]
 - Absolute Xpath after using node() /html/node()/p[1]
 - Relative Xpath without using node() //body/p[1]
 - Relative Xpath after using node() //node()/p[1]