

XPATH PREDICATE

http://www.tutorialspoint.com/xpath/xpath_predicate.htm

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Predicate refers to XPath expression written in square brackets. It refers to restrict the selected nodes in a node set for some condition. For example

Predicate	Description
/class/student[1]	Select first student element which is child of the class element.
/class/student[last]	Select last student element which is child of the class element.
/class/student[@rollno=493]	Select student element with rollno 493.
/class/student[marks>85]	Select student element with marks > 85.

Example

This example creates a table of <student> element with their details, by iterating over each student. It calculate position of the student node then prints the students details along with serial no.

students.xml

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="students.xsl"?>
<class>
  <student rollno="393">
    <firstname>Dinkar</firstname>
    <lastname>Kad</lastname>
    <nickname>Dinkar</nickname>
    <marks>85</marks>
  </student>
  <student rollno="493">
    <firstname>Vaneet</firstname>
    <lastname>Gupta</lastname>
    <nickname>Vinni</nickname>
    <marks>95</marks>
  </student>
  <student rollno="593">
    <firstname>Jasvir</firstname>
    <lastname>Singh</lastname>
    <nickname>Jazz</nickname>
    <marks>90</marks>
  </student>
</class>
```

students.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">
  <html>
  <body>
    <h2>Students</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Roll No</th>
        <th>First Name</th>
        <th>Last Name</th>
```

```

<th>Nick Name</th>
<th>Marks</th>
</tr>
<xsl:for-each select="/class/student[1]">
<tr>
<td><xsl:value-of select="@rollno"/></td>
<td><xsl:value-of select="firstname"/></td>
<td><xsl:value-of select="lastname"/></td>
<td><xsl:value-of select="nickname"/></td>
<td><xsl:value-of select="marks"/></td>
</tr>
</xsl:for-each>
<xsl:for-each select="/class/student[last()]">
<tr>
<td><xsl:value-of select="@rollno"/></td>
<td><xsl:value-of select="firstname"/></td>
<td><xsl:value-of select="lastname"/></td>
<td><xsl:value-of select="nickname"/></td>
<td><xsl:value-of select="marks"/></td>
</tr>
</xsl:for-each>

<xsl:for-each select="/class/student[@rollno=493]">
<tr>
<td><xsl:value-of select="@rollno"/></td>
<td><xsl:value-of select="firstname"/></td>
<td><xsl:value-of select="lastname"/></td>
<td><xsl:value-of select="nickname"/></td>
<td><xsl:value-of select="marks"/></td>
</tr>
</xsl:for-each>

<xsl:for-each select="/class/student[marks > 85]">
<tr>
<td><xsl:value-of select="@rollno"/></td>
<td><xsl:value-of select="firstname"/></td>
<td><xsl:value-of select="lastname"/></td>
<td><xsl:value-of select="nickname"/></td>
<td><xsl:value-of select="marks"/></td>
</tr>
</xsl:for-each>

</table>

</body>
</html>
</xsl:template>
</xsl:stylesheet>

```

Verify the output

Roll No	First Name	Last Name	Nick Name	Marks
393	Dinkar	Kad	Dinkar	85
593	Jasvir	Singh	Jazz	90
493	Vaneet	Gupta	Vinni	95

493	Vaneet	Gupta	Vinni	95
593	Jasvir	Singh	Jazz	90

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