Handling XML Files

Java has **inbuilt mechanism** which will allow us to parse the data that is provided in XML files and read/retrieve them based on our needs. The below are few programs which will demonstrate reading the data from the XML files:

- XML
  - XML stands for Extensible **M**arkup **L**anguage
  - XML is used to transport the data between two parties with the help of user defined tags
  - HTML is also similar to XML, but it has predefined tags which help in structuring the web page
  - Create an Example XML file holding Employee data - View here
- Demonstrate printing the root tag name in the above Employee data XML file - View here
- According to XML DOM, everything in an XML document is a node
  - The entire document is a document node (Node.DOCUMENT_NODE)
  - Every XML element is an element node (Node.ELEMENT_NODE)
  - The text in the XML elements are text nodes (Node.TEXT_NODE)
  - Every attribute is an attribute node (Node.ATTRIBUTE_NODE)
  - Comments are comment nodes (Node.COMMENT_NODE)
  - Demonstrate printing all the node types to view the values that each type of node is representing - View here
  - Demonstrate printing the node type of the root element - View here
- Demonstrate printing the count of child nodes under root element - View here
- Demonstrate find out whether the element has child nodes and then printing the count of child nodes under the root element - View here
- Demonstrate printing the names of child element nodes of root element node - View here
- Demonstrate printing the data of Employees stored in the Employees.xml file - View here
- Demonstrate a Project demonstrating the reading of data in xml file and into List in Java - Download Project here