**Assignment #1(xml)**

**1. What is a XML Document?**

**XML** stands for eXtensible markup language. **XML** is a file extension for an Extensible Markup Language (**XML**) file format used to create common information formats and share both the format and the data on the World Wide Web, intranets, and elsewhere using standard ASCII text. **XML** is similar to **HTML**.

**2.What is a Root Element?**

Each XML document has exactly one **single root element**. It encloses all the other **elements** and is therefore the sole parent **element** to all the other **elements**. **ROOT elements** are also called **document** **elements**.

**3.What is a XElement?**

XDocument represents a whole XML document. It is normally composed of a number of elements. **XElement** represents an XML element (with attributes, children etc). It is part of a larger document. Use XDocument when working with a whole XML document, **XElement** when working with an XML element.

**4.What is a XML Node?**

According to the **XML** DOM, everything in an **XML** document is a **node**: The entire document is a document **node**. Every **XML**element is an element **node**. The text in the **XML** elements are text **nodes**.

**5.What is an attribute in an XML document?**

XML elements can have attributes, just like HTML. Attributes are designed to contain data related to a specific element. Attribute values must always be quoted. Either single or double quotes can be used. ex: <gangster name='Neel "Shotgun" Reddy'>

**6.What is an XPath?**

**XPath** is a major element in the XSLT standard. **XPath** can be used to navigate through elements and attributes in an XML document. **XPath** is a syntax for defining parts of an XML document. **XPath** uses path expressions to navigate in XML documents.

**7.What is a XML Simple Type?**

**XML** Schema Data **Types**. **XML** Schema data **types** can be generally categorized a "**simple type**" (including embedded **simple type**) and "complex **type**." The "embedded **simple type**" is already defined, but can be used to create a new **type** through restriction or extension.

**8. What is a XML Complex Type?**

The **complex type** element defines a **complex type**. A **complex type** element is an **XML** element that contains other elements and/or attributes.