**(1) what is prolog section in XML.**

**ANS:** prolog section is used to indicates that how XML documnet interpreted and **provides metadata of XML document**.

- it is optional to declare, but if declared it should be first line of XML document.

- it have 3 optional propertys.

      (1)version: indicated version of XML file

      (2)encoding: indicate the browser that in which format document is written

      (3)standalone: indicates that wheather document depends on another document or not.by default set to no.

**(2) WHAT IS DTD?.**

**ANS :** stands for document type defination.

- It **defines the legal building blocks of an XML document**.

- It is **used to define document structure** with a list of legal elements and attributes.

- Purpose of DTD is to **define structure of XML.**

**(3) Explain ID and Class Selector in jQuery.**

**ANS :** in jQuery if we want select any HTML element and Perform tasks on it we can use ID and class selector.

it is same like CSS selector.

-> syntax : $(selector).action(value);

-> we should pass ID with "#" followed by ID name in selector as a string to

select HTML element with that ID and should pass Class name with "." with dot followed by

class name in selector to select ID or Class element.

**(4) Set and Get method in jQuery.**

**ANS** :

-> Set method is used to set the text, html, css, attribute,value to selected element.

-> Get method is used to get the text, html, css, attribute,value of selected element.

**(5) Give difference between wrap and unwrap methods in jQuery.**

**ANS :** wrap and unwrap is jQuery method used to remove or add parent tag of selected element in html.

WRAP:Wrap method **is used to wrap a selected element** inside of specified tag.

example : $('p').wrap('<div></div>');

UnWrap: It is **used to remove parent eleme**nt of selected tag.

example : $('p').unwrap();

**(6) Defination of NPM - Use of Node JS.**

**ANS : NPM** stands for Node Package manager.

-> NPM is **used to manage packages and dependencies** of Node JS applications.

-> It allows developers to **easily install , share and distribute packages of resuable code**.

-> It is mostly adapted **and now become the standerd package manager** for Node JS.

-> **Node JS** is a **open-source server-side runtime environment** that uses javascript on server-side to create scanable , high-performs , real time web application , APIs and server side application.

-> it uses Google Chrome's V8 engine and developed by **Ryan Dahl in 2009.**

->Node.js provides a **rich library of various JavaScript modules** which **simplifies the development of web applications** using Node.js to a great extent.

**(7) What do you mean by Document Ready Event?**

**ANS:** document ready is jQuery event that is **used to perform tasks when HTML document is ready to manipulate**.

-> it means that all the HTML **is loaded & parsed and HTML DOM** is ready to manipulate.

-> it is often used to **run the code when page fully loaded**.

**(9) Diffrence between XML and JSON.**

**ANS :**

| JSON | XML |
|------|-----|
| It is JavaScript Object Notation | It is Extensible markup language |
| It is based on JavaScript language. | It is derived from SGML. |
| It is a way of representing objects. | It is a markup language and uses tag structure to represent data items. |
| It does not provides any support for namespaces. | It supports namespaces. |
| It supports array. | It doesn't supports array. |
| Its files are very easy to read as compared to XML. | Its documents are comparatively difficult to read and interpret. |
| It doesn't use end tag. | It has start and end tags. |
| It is less secured. | It is more secured than JSON. |
| It doesn't supports comments. | It supports comments. |
| It supports only UTF-8 encoding. | It supports various encoding. |

**(10) What is the difference between writeFile() and appendFile()?**

**ANS :** writeFile() and appendFile() will be used to add data in file but writeFile will **overrides all data of file that already exixt**,

but appendFile() will **add data with already exiciting data of file**.

**(11) How to open ,read ,write and delete file using node js ?**

**ANS** : to do this operation FS module is required

        (a) open : open(filename , access_specifer , callbackFunction)

        (b) read : readFile(filename , function(error,data)) => return buffered data

        (c) write : writeFile(filename , data to write ,callBack)

        (d) delete : unlink(filename ,callback)

**(12) What is JSON ? explain array of JSON.**

**ANS :** JSON stands for Javascript object notation.

- It is **based on JavaScript's Object & arrays**
- JSON stores data in **text-based , interchangeble and humar-readable** format.
- JSON **supports almost all kind of Languages** and framework
- JSON **stores object in curly brackets with key:value format** which can be spreated using comma.

### JSON ARRAY :

- Json key can stores a **value as Array**.
- Structure of JSON can also be a Array.
- Array of JSON is **comma sepreted values in squre brackets**.
- We can also stores **nested array or array of object.**