HTML

DAY1

* HTML- hypertext markup language ( hypertext - text which contains links to other texts, markup language - a system of tagging text that instructs how it should be displayed or processed)
* HTML - is used to create static web pages(not editable webpages)
* Tim Berners-Lee Founded in 1991 and used HTML1 in 1993, at present we are using HTML5 version in 2014
* To care of html is W3C (World Wide Web Consortium)
* Website - a collection of webpages under a single domain name
* Webpage - a collection of multiple data like text, audio, video, images etc..
* SDLC - (software development life cycle)**is a structured process that is used to design, develop, and test good-quality software.to deliver high-quality, maintainable software that meets the user's requirements.**
* **IP Address-** the unique identifying number assigned to every device connected to the internet
* **Tags -** combination of <,>,symbol with keywords (<h1>, here h1 is keyword )
* Tags are 2 types
* 1. Paired tag - a tag that comes in a set of two: an opening tag and a closing tag (<h1> …….</h1>)
* 2. Unpaired/voidtag/empty tag - also called a self-closing or empty tag, is a tag that does not require a closing counterpart. (<br> - breaktag, <hr> - horizantaltag)
* Structure of HTML -

<!Doctype> - it tells the version of html to the browser

<html> - root element

<head> - it contains metatags and title tags

</head>

<body> - body contains the content which is displayed on webpages

</body>

</html>

Q) Difference between html4 and html 5 tags ?

ans) HTML4 and HTML5 are the two versions of HTML that offer more features than the earlier versions. The following table depicts the main differences between HTML4 and HTML5.

| Feature | HTML 4 | HTML 5 |
| --- | --- | --- |
| Release Date | 1997 | October 2014 |
| Doctype Declaration | Lengthy and complex | Simplified: <!DOCTYPE html> |
| Vector Graphics | Requires plug-ins like Adobe Flash | Native support with <svg> |
| Audio/Video Support | Requires external plugins (like Flash) | Native support with <audio> and <video> |
| Semantics | Limited semantic elements | Rich semantic elements like <article>, <nav>, <section>, <header>, <footer> |
| APIs and DOM | Limited API support | Extensive APIs (offline storage, drag-drop, etc.) |
| Graphics | Limited; mainly through external plugins | Canvas API for 2D/3D graphics |
| Storage | Cookies for client-side storage | Local storage, session storage |
| Accessibility | Basic | Improved with new semantic elements |
| Browser Compatibility | Consistent across modern browsers | Varies; older browsers require polyfills |
| Mobile Support | Limited | Enhanced, with features for mobile optimization |
| Form Controls | Basic controls | New form controls like calendar, date, time, color picker |
| Scripting | Heavily reliant on external scripts | More integrated scripting capabilities |
| Structure | Less emphasis on document structure | Strong focus on document structure |