

# Web Programming

## Assignment-I

Saarthak

Srivastav  
FYII 87

1) Define XML? Explain the anatomy of XML with proper Syntax.

- XML stands for extensible markup language
- A markup language is a set of codes, or tags, that describes the text in a digital document
- XML is used for representing structured information: documents, data, configuration, invoices and much more.
- An XML document contains exactly one root element. The start tag of the XML document, and it contains all other elements.
- Tags are case-sensitive that begins with < and ends with >. A tag can be: A start-tag, such as <name>
- XML declaration must be the first item in a document. It uses the <?xml?> element.
- <root>
  - <child>Data </child>
  - <child>More data </child></root>



- 2) What is DTD? Explain the types of DTD with suitable example.
- DTD stands for "Document Type Definition"
  - It defines the tags and attributes used in an XML or HTML document.
  - There are two types of DTD: internal DTD and external DTD
  - When a DTD is declared within the file it is called internal DTD and if it is declared in a separate file it is called External DTD
  - ~~Examples of DTD are:~~ Example of DTD
  - Example of a DTD used for defining an automobile: `<!DOCTYPE automobile[`

3) Describe XML schema and its use with example

- An XML schema describes the structure of an XML document, just like a DTD.
- It is an XML-based alternative to DTD
- We can use XML schema for our XML files can carry a description of its own format.
- With XML schema, we can verify data and the data can be interchanged
- There are so many schema languages which are ~~now~~ used now a days for example Relax-NG and XSD (XML schema definition)



- 4) What is PHP? How to pass information in PHP with GET and post method?
- PHP (Hypertext Processor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites
- There are two ways the browser client can send information to the web server
- The GET and the POST method
- The GET and the POST methods are the HTTP request methods used inside the `<form>` tag to send form data to server.
- Create `posttest.php` file to accept data sent by HTML form.
- `<html>`  
`<body>`  
 Welcome `<?php echo $_POST["username"];?>`  
 Your blood group is: `<?php echo $_POST["blood group"];?>`  
`</body>`  
`</html>`
- For GET method, just replace POST with GET.



5) What is a regular expressions? Explain with example.

→ A regular expression is a method used in programming for pattern matching.

→ Regular expressions provide a flexible and concise means to match strings of text.

→ For example, a regular expression could be used to search through large volumes of text and change all occurrences of "cat" to "dog".

6) Write in short on super global arrays.

→ Super global arrays are some predefined variables in PHP which are "super global" which means that they are always accessible, regardless of scope, and you can access them from any function, class or file without having to do anything special.

→ Some examples of super global arrays in PHP:

`$GLOBALS`

`$_SERVER`

`$_REQUEST`

`$_GET`

`$_POST`



7) Explain string and string functions with example.

- A string is a data type used in programming such as an integer and floating point unit, but is used to represent text rather than numbers. It is composed of a set of characters that can also contain spaces and numbers.
- Example: The word "hamburger" and the phrase "I ate 3 hamburgers" are both strings.
- String functions are used in computer programming languages to manipulate a string or query information about a string (some do both).
- The most basic example of a string function is the `length(string)` function. This function returns the length of a string literal.
- Eg. `length("hello world")` would return 11.