## **DOM Manipulation**

- DOM is the tree structure of the HTML document. The browser understands the tree structure and provides us the output.
- Js helps to manipulate the DOM tree.
- The document is the object that refers to the webpage.

# Fetch elements using TagName:

- We can fetch the elements from HTML file usingTagName.
  - o Example: document.getElementsByTagName (" Tag Name ");
- If two or more elements have the same TagName then we use index numbers to get them.
  - o Example: Let us assume <h1> tag has hii, hello, bye as values in HTML file.

#### JS file:

```
var ele = document.getElementsByTagName (" h1 ");
console.log ( ele [2] );   // < h1 > bye < /h1 >
console.log ( ele [2].innerText );   // bye
console.log ( ele [0] );   // < h1 > hii < /h1 >
```

# Fetch elements using ClassName:

• we can fetch elements using ClassName from html document. If we have two or more with same ClassName then we can get the element using index number.

## Html file:

#### Js file:

```
var ele = document.getElementsByClassName ( " age " );
console.log ( ele [1] );    //  46 
console.log ( ele [1].innerText );    // 46
```

# Fetch elements using Id:

We can fetch elements using Id from an HTML document. If we have two or more with the same Id then we can get the element using an index number.

### Html file:

```
< body >
   hey LetsUpgraders 
  < /body >
```

#### Js file:

```
var ele = document.getElementById ( "para" );
console.log ( ele ); //  hey LetsUpgraders 
console.log ( ele.innetText ); // hey LetsUpgraders
```

• innerText is only for text that is it takes everything as text whereas innerHTML is for both text and HTML that is it converts everything into HTML format in a javascript document.

### **Functions:**

- The function is a block of code that has a name that performs a particular task.
- We can use the function multiple times so that it reduces complexity with less lines of code and saves time.

### Non - Parameterized function

### Syntax:

```
function function_name ( )
```

```
{
// code here
}
```

### Example:

```
function addition ()
{
  var a = 15;
  var b = 8;
   var c = a + b;
   console.log ( c );
  }
  addition ( );  // 23
addition ( );  // 23
```

### Parameterized function

#### Syntax:

```
function function_name ( parameter 1, parameter 2 .....)
{
  //code
}
```

## Example:

#### **Event Handling**

 Any action that a user performs on a web page whether it is a click or double click or selection of text by using mouse or keyword is called event handling.

#### Example:

#### Html file:

```
< body >
< button onclick = " dosomething ( ) " > click me < /button >
< /body >
```

#### Js file:

```
function dosomething ( )
  {
  Console.log ( " hello LetsUpgraders " );
  }
```

Now when I click on the click me button then "hello LetsUpgraders" is displayed in the
console.