**IMPLEMENTATION OF BASIC JAVASCRIPT.**

**OBJECTIVE**

To implement and familiarize with basic JavaScript.

**THEORY**

**JavaScript**

JavaScript is the programming language. This means as a developer, he/she have control over how the program is executed; it’s not usually executed in linear fashion. Like CSS, JavaScript code should be placed in its own file. It has a .js file extension. To run the .js file in a HTML page you must reference the javascript file using <script> HTML tag. The script tag has a src attribute (like the <img> tag) that point to the javascript file. The script tags should go inside the pages <head> tag. The script tag does not need anything between <script > and </script> but both start and end tags are required.

**ACTIVITIES**

First, we created a html file with a h2 with id ‘title’ , ul with class ‘news’, and button with id ‘button‘ in the body of it. Then we created a external js file and link it in the head of html file.

Inside js file, we write some js code including, alert(), console.log(), prompt(), function, variables, document.getElementsByClassName(),document.addEventListener, document.getElementById(), element.addEventListener(), getElementsByTagName(), for loop, if else condition.

**CODE**

**HTML:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<script type="text/javascript" src="script.js"></script>

<title>JavaScript</title>

</head>

<body>

<h2 id="title">Page Title</h2>

<ul class="news">

<li>First Item</li>

<li>Second Item</li>

<li>Third Item</li>

</ul>

<button id="button">Change</button>

</body>

</html>

**JS:**

// alert('Hello World');

// var check = confirm('Do you want to delete');

// alert('You choose ' + check);

// var name = prompt("Enter your name: ");

// alert("Hello "+name);

// if(name != '')

// console.log("Hello there");

// else if(name!=null)

// console.log("Hello "+ name);

function myLoad (){

var title = document.getElementById('title');

title.addEventListener('mouseenter', changeToRed);

title.addEventListener('mouseleave', changeToBlack);

var button = document.getElementById('button');

button.addEventListener('click', changeItems)

}

function changeToRed(){

title.style.color = 'red';

}

function changeToBlack(){

title.style.color = 'black';

}

function changeItems(){

var news = document.getElementsByClassName('news')[0];

var items = news.getElementsByTagName('li');

for(var i=0; i < items.length ;i++){

var num = i+1;

items[i].innerHTML = 'Item ' + num;

}

}

document.addEventListener('DOMContentLoaded', myLoad);

**SUMMARY/PROBLEM FACED**

We are able to load a js file into a html page and use javascript to manipulate document element, show alert dialog, get information using prompt, see the error in console, use console.log and familiarize with event handling.

The main problem faced was to give the logic while when we get information using prompt and display it in console.

**LAB INSTRUCTOR COMMENTS**