**WT LAB SOLUTIONS**

**1.Explain the process of Install and configure the IDE(sublime text)(LAB-6)**

**2. Explain Incorporating JavaScript on an HTML page, and how to link to an external .js file (LAB-7)**

**3. Comparing JavaScript with jQuery for same tasks(LAB-8)**

**4.Create a webpage by Using major methods/events in jQuery(LAB-9)**

**5. Create DTD and XSD for the following:(LAB-10)**

1. **The Library Scenario: In a library zero or more books are there, if there is a book,The book have either title or bname,one or more authors and zero or one publication and details. The properties of details are fixed price for everyone , should have unique book number and can sold to either to the countries either india or usa or germany.**
2. **Create XSD file for the following XML file**

**<?xml version="1.0" encoding="UTF-8"?>**

**<company xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="example1.xsd">**

**<employe skills="WEB TECHNOLOGIES">**

**<ename>SK</ename>**

**<eno>1000</eno>**

**<esalary>25000</esalary>**

**<ephone>8184811287</ephone>**

**<gender>M</gender>**

**</employe>**

**<employe skills="PROGRAMMING" >**

**<ename>MK</ename>**

**<eno>10001</eno>**

**<esalary>22000</esalary>**

**<ephone>8184811287</ephone>**

**<gender>F</gender>**

**</employe>**

**</company>**

**6. Implement Bootstrap in existing web sites(LAB-11)**

**7.Create a webpage using Common Bootstrap components(LAB-12)**

**8. Setup a Node.js project using npm(LAB-13)**

**9. Use the Node.js core modules(LAB-14)**

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**1A)**

The IDE we are going to use is SUBMILE TEXT   
To install it: first we need to download the source file(.exe file) .

For that we can download it from <https://download.sublimetext.com/sublime_text_build_4121_x64_setup.exe>

And after that install the exe file by running it.

To configure..  
There is nothing important things to configure it.

**2A)**

Steps to Incorporate a JavaScript file on an HTML page.

1. Create a HTML page

<html>

<head></head>

<body> body of html</body>

</html>

1. Create A javascript file.  
    Filename.js
2. Add some test code to the .js file

console.log(‘It works!’);

1. Add the js file to the HTML page in the head tag of the HTML file.(by using external js file)

<script src=”filename.js”></script>

<!--/\*external js linking\*/-->

1. Open the web page/html page in the web browser and open console in developer tools and incorporate the JS file.

**3A)**

<p>A loop with a <mark>continue</mark> statement.</p>

<p>loop will skip the iteration where k = 7.</p>

<p id="maddy"></p>

JAVASCRIPT

<!DOCTYPE html>

<html>

<body>

<script>

var text = "";

var k;

for (k = 0; k < 10; k++) {

if (k === 7) {

continue;

}

text += "The number is " + k + "<br>";

}

document.getElementById("maddy").innerHTML = text;

</script>

</body>

</html>

**OUTPUT:**

**JQUERY**

<!DOCTYPE html>

<html>

<head>

<script src=

"https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">

</script>

<script>

$(document).ready(function () {

$("#hide").click(function () {

$("h1").hide();

});

$("#show").click(function () {

$("h1").show();

});

});

</script>

</head>

<body>

<h1>

<mark>

On clicking the "Hide\_me" button, I will disappear.

</mark>

</h1>

<button id="hide">Hide\_me</button>

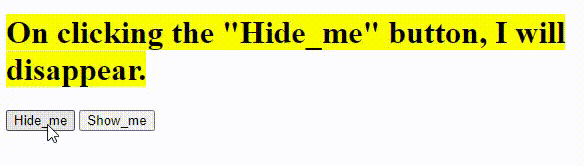
<button id="show">Show\_me</button>

</body>

</html>

**OUTPUT**

**As we click on the Hide\_me button, the above-marked heading will disappear, but as soon as we click on the Show\_me button it’ll again appear**

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**4A)**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Jquery 1st</title>

<!--<script type="text/javascript" href="jquery.js"></script>-->

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>

</head>

<body>

<center><h1 class="head1" id="1st">Hello world</h1></center>

<script type="text/javascript">

var i=1;

for(i=1;i<5;i++){

$('#1st').hide(3000).show(2000);

$('.head1').css("background-color","red");

}

/\*Jquery Events\*/

$('.head1').on({

mouseenter:function(){

//alert("Mouseover");

},

mouseleave:function(){

alert("MouseRemoved");

},

click:function(){

alert("clicked");

}

})

</script>

</body>

</html>

**OUTPUT:**

**For output copy the code and save the file.html and run it you will get the output.**

**5A)**

**a)**

<!DOCTYPE Library [

<!ELEMENT Library (book\*)>

<!ELEMENT book ((title|bname),authors+,publication?,details)>

<!ELEMENT title (#PCDATA)>

<!ELEMENT bname (#PCDATA)>

<!ELEMENT authors (#PCDATA)>

<!ELEMENT publication (#PCDATA)>

<!ELEMENT details (#PCDATA)>

<!ATTLIST details price CDATA #FIXED "1001">

<!ATTLIST details id CDATA #REQUIRED>

<!ATTLIST details sold (india|usa|germany) #REQUIRED>

]>

<Library>

<book>

<title>BOOK1</title>

<!--<bname>Naa peru Book</bname>SO here only either bname or title-->

<authors>NENE author</authors>

<publication>EVARO OKARU</publication>

<details price="1001" id="01" sold="india">MY BOOK DETAILS</details>

</book>

</Library>

**b)**

**XSD file.**

**6A)**

**IMPLEMENTING bootstrap ON THE NOTIFICATION.html page**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous" />

<link rel="stylesheet" href="notifications.css">

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

<title>Notifications</title>

<style>

table{

border: 1px solid black;

width: 100%;

}

th{

background-color: rebeccapurple;

color: white;

font-weight: bold;

text-align: center;

}

td{

text-align: center;

}

h1{

color: rebeccapurple;

text-align: center;

text-decoration: underline;

}

</style>

</head>

<body>

<h1 class="mt-4">Notifications</h1>

<div class="notifications">

<div class="container">

<div class="row mt-5 shadow-lg p-2">

<div class="col-1">

<table>

<tr>

<th>OCT</th>

</tr>

<tr>

<td>29</td>

</tr>

</table>

</div>

<div class="col-9 ml-5">

<p>

<a href="#">Applications are invited for the Post of Residential Medical Officer on Contract basis(Only Female).</a>

<span class="new">New</span>

</p>

</div>

</div>

<div class="row mt-5 shadow-lg p-2">

<div class="col-1">

<table>

<tr>

<th>OCT</th>

</tr>

<tr>

<td>23</td>

</tr>

</table>

</div>

<div class="col-9 ml-5">

<p>

<a href="#">One‐Day International Webinar on Sustainable Water Resources Management in Asian Cities: Challenges & Opportunities</a>

<span class="new">New</span>

</p>

</div>

</div>

</div>

</div>

</body>

</html>

**OUTPUT**

**For output copy the code and save the file.html and run it you will get the output.**

**7A)**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Trying BOOTSTRAP</title>

<link rel="stylesheet" type="text/css" href="CSS/bootstrap.css">

<script src=”bootstrap.js”></script>

<style type="text/css">

\*{

margin: 0;

padding: 0;

box-sizing: border-box;

}

nav div:nth-child(1){

background-color: rgba(0, 0, 0, 0.2);

padding: 10px;

}

body{

background-color: rgba(0, 0, 0, 0.9);

}

</style>

</head>

<body>

<nav class="navbar navbar-expand-md navbar-light bg-light">

<div class="container-fluid">

<a class="navbar-brand" href="#">WT RECORD</a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-starget="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class=" container collapse navbar-collapse" id="navbarSupportedContent">

<ul class="navbar-nav me-auto mb-5 mb-lg-0"><!-- me-auto mb-2 mb-lg-0 -- these are used here to separate the search box and buttons-->

<li class="nav-item">

<a class="nav-link active" href="#">Home</a>

</li>

<li class="nav-item">

<a class="nav-link" href="#">Link</a>

</li>

<li class="nav-item dropdown">

<a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">

Dropdown

</a>

<ul class="dropdown-menu" aria-labelledby="navbarDropdown">

<li><a class="dropdown-item" href="#">Action</a></li>

<li><a class="dropdown-item" href="#">Another action</a></li>

<li><hr class="dropdown-divider"></li>

<li><a class="dropdown-item" href="#">Something else here</a></li>

</ul>

</li>

<li class="nav-item">

<a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Disabled</a>

</li>

</ul>

<form class="d-flex">

<input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">

<button class="btn btn-outline-success" type="submit">Search</button>

</form>

</div>

</div>

</nav>

<!--<div class="buttons">

<a href="#">Home</a>

<a href="#">About</a>

</div>-->

</body>

</html>

**OUTPUT**

**For output copy the code and save the file.html and run it you will get the output.**

**8A)**

Steps

1. Go to the NodeJS website and download NodeJS
2. Make sure Node and NPM are installed and their PATHs defined
3. Create a new project folder
4. Start running NPM in your project folder (it runs in the background)
5. Install any NPM packages we need
6. Create an HTML file in the project folder (this is what the client will see)
7. Create a Node/JavaScript file in the project folder (this is your server file)
8. Run your server
9. Visit your (local) website!

**9A)**