**WDD LAB CODES WEEK-1 TO WEEK-13**

**WEEK-1:- VS code (HTML)**

<!DOCTYPE html>

<html>

<head>

<title>Basic Layout of Webpage using Html and Html5 tags</title>

<link rel="stylesheet" href="exp4.css">

</head>

<body>

<header>

<center>

<h1 id="header">Basic Layout</h1>

</center>

</header>

<hr>

<section>

<nav>

<div class="dropdown">

<button class="dropbtn">Dropdown</button>

<div class="dropdown-content">

<a href="https://github.com/">github</a>

<a href="https://www.hackerrank.com/dashboard">hackerrank</a>

<a href="https://www.linkedin.com/feed/">linkedin</a>

<a href="https://leetcode.com/">leetcode</a>

</div>

</div>

</nav>

</section>

<hr>

<section>

<article>

<figure>

<a href="https://github.com/"><img src="github.png" alt="" width="250" height="100" style="float: right;"></a>

<figcaption style="float: right;"></figcaption>

</figure>

<h2><mark>github</mark></h2>

<p>GitHub is a code hosting platform for version control and collaboration.<br> It lets you and others work together on projects from anywhere.<br> This tutorial teaches you GitHub essentials like repositories, branches, commits, and pull requests.</p>

<video width="160" height="120" controls>

<source src="GitHub\_.mp4">

</video>

</article>

<article>

<figure>

<a href="https://www.hackerrank.com/dashboard"><img src="hackerrank.png" alt="" width="250" height="100" style="float: right;"></a>

<figcaption style="float: right;"></figcaption>

</figure>

<h2><mark>hackerrank</mark></h2>

<p>HackerRank is a place where programmers from all over the world come together to solve problems in a wide range of Computer Science domains such as algorithms,<br> machine learning, or artificial intelligence, as well as to practice different

programming paradigms like functional programming.</p>

<video width="160" height="120" controls>

<source src="hackerrank.mp4">

</video>

</article>

<article>

<figure>

<a href="https://www.linkedin.com/feed/"><img src="linkedin.png" alt="" width="250" height="100" style="float: right;"></a>

<figcaption style="float: right;"></figcaption>

</figure>

<h2><mark>linkedin</mark></h2>

<p>LinkedIn is a social networking site designed specifically for the business community.<br> The goal of the site is to enable registered members to establish and document networks of people they know and trust professionally.</p>

<video width="160" height="120" controls>

<source src="Linkedin \_.mp4">

</video>

</article>

<article>

<figure>

<a href="https://leetcode.com/"><img src="leetcode.png" alt="" width="250" height="100" style="float: right;"></a>

<figcaption style="float: right;"></figcaption>

</figure>

<h2><mark>leetcode</mark></h2>

<p>Leetcode is an online platform to enhance your skills and prepare for tech interviews.<br> There site has over 1900 coding problems with questions to help you prepare.</p>

<video width="160" height="120" controls>

<source src="Leetcode.mp4">

</video>

</article>

</section>

<hr>

<section>

<h2>Form</h2>

<form action="tq.html" target="\_blank" autocomplete="on">

First Name : <input type="text" name="fname" placeholder="firstname"><br><br> Last Name : <input type="text" name="name" placeholder="lastname"><br><br> Date of birth : <input type="date" name="dob"><br><br> Enter your phone number:

<input type="tel" id="phone" name="phone" pattern="[0-9]{3}-[0-9]{3}-[0-9]{4}" required><br><br> Gender :

<input type="radio" name="gender" value="male" />male

<input type="radio" name="gender" value="Female" />Female

<input type="radio" name="gender" value="Other" />Other<br><br> Favourite platform :

<input type="Checkbox" name="interest" value="github" />github

<input type="Checkbox" name="interest" value="hackerrank" />hackerrank

<input type="Checkbox" name="interest" value="linkedin" />linkedin

<input type="Checkbox" name="interest" value="leetcode" />leetcode<br><br> city :

<select name="city">

<option value="Delhi">Delhi</option>

<option value="Chennai">Chennai</option>

<option value="Mumbai">Mumbai</option>

<option value="Vizag">Vizag</option>

</select><br><br>

<input type="submit" value="submit form">

</form>

</section>

<hr>

<section>

<h2>Table</h2>

<table border="5" cellspacing="4">

<tr>

<th>Name</th>

<th>Users</th>

</tr>

<tr>

<td>Github</td>

<td>100M</td>

</tr>

<tr>

<td>HackerRank</td>

<td>7M</td>

</tr>

<tr>

<td>Linkedin</td>

<td>900M</td>

</tr>

<tr>

<td>Leetcode</td>

<td>20M</td>

</tr>

</table>

</section>

<hr>

<section>

<h2>summary</h2>

<details>

<summary>Favourite platform</summary>

<p>GitHub</p>

</details>

</section>

<hr>

<footer class="footer">

<h3>Footer</h3>

<p>Name: S. Nitin Kumar<br>

<p>Roll no: RA2011028010063</p>

<a href="mailto:snitinkumar6086@gmail.com">mailto</a></p>

</footer>

</body>

</html>

**WEEK-3:- VS CODE** (MEDIA ELEMENTS)

<!DOCTYPE html>

<html lang="en">

<head>

<title>Media Elements</title>

</head>

<header>

<center>

<h1>Media Elements</h1>

</center>

</header>

<hr>

<body>

<section>

<article>

<h2><mark>Instagram</mark></h2>

<p>1.1 Instagram video</p>

<video width="200" height="150" controls autoplay>

<source src="instagram.mp4">

<track src="instagram.vtt" kind="subtitles" srclang="en" label="English">

</video><br>

<p>1.2 Instagram audio</p>

<audio controls autoplay>

<source src="instagram.mp3" type="audio/mpeg" />

</audio><br>

<p>1.3 embed instagram</p>

<embed src="https://www.youtube.com/embed/ChnjKdMdQqA">

</article>

<article>

<h2><mark>Facebook</mark></h2>

<p>2.1 Facebook video</p>

<video width="200" height="150" controls loop>

<source src="facebook.mp4">

<track src="facebook.vtt" kind="subtitles" srclang="en" label="English">

</video><br>

<p>2.2 Facebook audio</p>

<audio controls loop>

<source src="facebook.mp3" type="audio/mpeg" />

</audio><br>

<p>2.3 embed facebook</p>

<embed src="https://www.youtube.com/embed/wmK07Jujmm0">

</article>

<article>

<h2><mark>Whatsapp</mark></h2>

<p>3.1 Whatsapp video</p>

<video width="200" height="150" controls preload="none">

<source src="whatsapp.mp4">

<track src="whatsapp.vtt" kind="subtitles" srclang="en" label="English">

</video><br>

<p>3.2 Whatsapp audio</p>

<audio controls preload="none">

<source src="whatsapp.mp3" type="audio/mpeg" />

</audio><br>

<p>3.3 embed whatsapp</p>

<embed src="https://www.youtube.com/embed/6HIr\_IpSBEQ">

</article>

</section>

</body>

<hr>

<footer>

<h1>Footer</h1>

<p>Name: S. Nitin Kumar<br>

<p>Roll no: RA2011028010063</p>

<a href="mailto:snitinkumar6086@gmail.com">snitinkumar6086@gmail.com</a></p>

</footer>

</html>

**WEEK-4:- VS CODE (CSS)**

#header {

background-color: aqua;

padding: 20px;

text-align: center;

}

.dropbtn {

background-color: #4CAF50;

color: white;

padding: 16px;

font-size: 16px;

border: none;

cursor: pointer;

}

.dropdown {

position: relative;

display: inline-block;

}

.dropdown-content {

display: none;

position: absolute;

background-color: gray;

min-width: 160px;

box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);

z-index: 1;

}

.dropdown-content a {

color: black;

padding: 12px 16px;

text-decoration: none;

display: block;

}

.dropdown-content a:hover {

background-color: pink;

}

.dropdown:hover .dropdown-content {

display: block;

}

.dropdown:hover .dropbtn {

background-color: #3e8e41;

}

\* {

font-size: 16px;

}

h2 {

color: blue;

}

body {

background-image: url(background\_image1.jpg), url(background\_image2.jpg);

background-position: left bottom, top;

background-repeat: no-repeat, repeat;

background-size: 100% 43%;

}

details,

summary {

background-color: turquoise;

}

.footer {

background-color: skyblue;

padding: 10px;

text-align: left;

}

h3 {

width: 50px;

height: 20px;

background-color: red;

animation-name: example;

animation-duration: 4s;

}

@keyframes example {

0% {

background-color: yellow;

}

25% {

background-color: green;

}

50% {

background-color: aqua;

}

100% {

background-color: tomato;

}

}

**WEEK-5A:- VS CODE (JAVA SCRIPT)**

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

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

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

<title>Experiment-5a</title>

<script>

function validation() {

var name = document.myform.name.value;

var pnum = document.myform.pnum.value;

var password = document.myform.password.value;

var passlen = password.length;

var email = document.myform.email.value;

var atpos = email.indexOf('@');

var dotpos = email.indexOf('.');

if (name == "") {

alert("Enter first name");

document.myform.name.focus();

return false;

}

if (name.length < 6) {

alert("enter name greater than 6 letters");

document.myform.name.focus();

return false;

}

if (pnum.length != 10) {

alert("Enter Phone Number");

document.myform.pnum.focus();

return false;

}

if (password == "") {

alert("enter password");

document.myform.password.focus();

return false;

}

if (passlen < 6) {

alert("enter password greater than 6 letters");

document.myform.password.focus();

return false;

}

if (email == "") {

alert("Enter email");

document.myform.email.focus();

return false;

}

if (atpos == 0) {

alert("@ is 0");

return false;

}

if (dotpos - atpos <= 2) {

alert("@ 2 .");

return false;

}

if (email.length - dotpos <= 2) {

alert("last");

return false;

}

return true;

}

</script>

</head>

<body style="background-color: mediumseagreen">

<h1>

<center>Registration Form</center>

</h1>

<hr>

<center>

<form name="myform" onsubmit="return validation()">

<table border="5" cellspacing="4">

<tr>

<td>name :</td>

<td><input type="text" name="name" autocomplete="off"></td>

</tr>

<tr>

<td>pnum :</td>

<td><input type="tel" name="pnum"></td>

</tr>

<tr>

<td>password :</td>

<td><input type="password" name="password"></td>

</tr>

<tr>

<td> email :</td>

<td><input type="text" name="email" autocomplete="off"></td>

</tr>

<tr>

<td><input type="submit" value="submit"></td>

</tr>

</table>

</form>

</center>

<div id="messageBox"></div>

</body>

</html>

**WEEK-5B:- VS CODE (JAVA SCRIPT)**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Expetiment-5b</title>

<script>

function calc() {

var name = document.myform.name.value;

var id = document.myform.id.value;

if (name == "") {

alert("Enter first name");

document.myform.name.focus();

return false;

}

if (name.length < 6) {

alert("enter name greater than 6 letters");

document.myform.name.focus();

return false;

}

let salary = document.myform.salary.value;

let hra = 0.4 \* salary;

let da = 0.6 \* salary;

let grsal = parseInt(salary) + parseInt(hra) + parseInt(da);

let pf = 0.13 \* grsal;

let tax = 0.2 \* grsal;

let ded = pf + tax;

let net = parseInt(grsal) - parseInt(ded);

document.getElementById("hra").innerHTML = hra;

// document.write(hra);

document.getElementById("da").innerHTML = da;

document.getElementById("grsal").innerHTML = grsal;

document.getElementById("pf").innerHTML = pf;

document.getElementById("tax").innerHTML = tax;

document.getElementById("ded").innerHTML = ded;

document.getElementById("net").innerHTML = net;

}

</script>

<style>

\* {

padding: 0.5%;

background-color: mediumseagreen;

}

table {

margin-left: auto;

margin-right: auto;

background-color: blue;

}

td {

width: 0.5%;

}

</style>

</head>

<body>

<table border="1" cellpadding="0" cellspacing="0">

<form action="" name="myform" method="post" onsubmit="return false">

<tr>

<td colspan="2">

<center>Employee Salary Report</center>

</td>

</tr>

<tr>

<td>Employee Name</td>

<td><input type="text" name="name" id=""></td>

</tr>

<tr>

<td>Employee Number</td>

<td><input type="number" name="id" id=""></td>

</tr>

<tr>

<td>Basic Salary</td>

<td><input type="number" name="salary" id=""></td>

</tr>

<tr>

<td>HRA(40% of basic)</td>

<td>

<p id="hra"></p>

</td>

</tr>

<tr>

<td>DA(60% of basic)</td>

<td>

<p id="da"></p>

</td>

</tr>

<tr>

<td>Gross Salary</td>

<td>

<p id="grsal"></p>

</td>

</tr>

<tr>

<td>PF(13% of basic)</td>

<td>

<p id="pf"></p>

</td>

</tr>

<tr>

<td>Tax(20% of the gross)</td>

<td>

<p id="tax"></p>

</td>

</tr>

<tr>

<td>Deductions(PF+Tax)</td>

<td>

<p id="ded"></p>

</td>

</tr>

<tr>

<td>Net salary(Gross-Dedections)</td>

<td>

<p id="net"></p>

</td>

</tr>

<tr>

<td colspan="2"><button onclick="calc()">submit</button></td>

</tr>

</form>

</table>

</body>

</html>

**WEEK-6A:- VS CODE (ANGULAR JS)**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Experiment-6a</title>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>

<style>

body {

background-color: skyblue;

padding: 1%;

}

div {

border: 1px solid black;

margin-left: 35%;

margin-right: 35%;

background-color: #ffffff;

}

form {

padding-left: 22%;

padding-right: auto;

padding-top: 4%;

padding-bottom: 4%;

background-image: url(calc\_image.jpeg);

background-size: 100%;

}

span {

border: 1px solid black;

padding: 1px 60px;

}

input,

button,

select {

padding: 1%;

}

</style>

</head>

<body>

<center>

<h1>Calculator</h1>

</center>

<div ng-app="calculator" ng-controller="calctrl">

<form>

<table>

<tr>

<td>value1:</td>

<td><input type="number" name="" id="" ng-model="num1"></td>

</tr>

<tr>

<td>value2:</td>

<td><input type="number" name="" id="" ng-model="num2"></td>

</tr>

<tr>

<td>operator:</td>

<td><select ng-model="operator">

<option value="+">+</option>

<option value="-">-</option>

<option value=""></option>

<option value="/">/</option></select>

<button ng-click="answer()">=</button></td>

</tr>

<tr>

<td>Answer:</td>

<td><span ng-bind="ans"></span></td>

</tr>

<tr>

<td><input type="reset" value="reset"></td>

</tr>

</table>

</form>

</div>

<script>

var app = angular.module("calculator", []);

app.controller("calctrl", function($scope) {

$scope.answer = function() {

if ($scope.operator == "+") {

$scope.ans = $scope.num1 + $scope.num2;

} else if ($scope.operator == "-") {

$scope.ans = $scope.num1 - $scope.num2;

} else if ($scope.operator == "\*") {

$scope.ans = $scope.num1 \* $scope.num2;

} else if ($scope.operator == "/") {

$scope.ans = $scope.num1 / $scope.num2;

}

};

});

</script>

</body>

</html>

**WEEK-6B:- VS CODE (ANGULAR JS)**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Experiment-6b</title>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>

<style>

body {

background-color: skyblue;

}

.error {

color: red;

}

div {

border: 1px solid black;

margin-left: 30%;

margin-right: 30%;

margin-top: 10%;

background-color: #ffffff;

}

form {

padding-left: 30%;

padding-right: auto;

padding-top: 8%;

padding-bottom: 8%;

background-image: url(loginform.jpeg);

background-size: 100%;

}

</style>

</head>

<body>

<div ng-app="">

<form action="https://www.w3schools.com" name="f1" method="post">

<table>

<tr>

<td>

<h3>login form</h3>

</td>

</tr>

<tr>

<td>name:</td>

<td><input type="text" name="t1" id="" ng-model="name" minlength="3" maxlength="8" required></td>

<td class="error" ng-show="f1.t1.$touched && f1.t1.$invalid">this is required</td>

</tr>

<tr>

<td>email:</td>

<td><input type="email" name="t2" id="" ng-model="email" required></td>

<td class="error" ng-show="f1.t2.$touched && f1.t2.$invalid">this is required</td>

</tr>

<tr>

<td>password:</td>

<td><input type="password" name="t3" id="" ng-model="password" minlength="6" required></td>

<td class="error" ng-show="f1.t3.$touched && f1.t3.$invalid">this is required</td>

</tr>

<tr>

<td><input type="submit" value="submit"></td>

<td><input type="reset" value="reset"></td>

</tr>

</table>

</form>

</div>

</body>

</html>

**WEEK-7A:- ECPLISE (SERVLET)**

Calculateservlet.java:-

package com.servlet;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class calculateservlet extends HttpServlet {

/\*\*

\*

\*/

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

PrintWriter pw=response.getWriter();

response.setContentType("text/html");

int mark1=Integer.parseInt(request.getParameter("mark1"));

int mark2=Integer.parseInt(request.getParameter("mark2"));

int mark3=Integer.parseInt(request.getParameter("mark3"));

int mark4=Integer.parseInt(request.getParameter("mark4"));

int mark5=Integer.parseInt(request.getParameter("mark5"));

int total=mark1+mark2+mark3+mark4+mark5;

int percentage=total/5;

if(percentage>=90) {

pw.print("<p style=color:green>Your Grade is O</p>");

}

else if(percentage>=80 && percentage<90) {

pw.print("<p style=color:green>Your Grade is A</p>");

}

else if(percentage>=70 && percentage<80) {

pw.print("<p style=color:yellow>Your Grade is B</p>");

}

else if(percentage>=60 && percentage<70) {

pw.print("<p style=color:orange>Your Grade is C</p>");

}

else {

pw.print("<p style=color:red>Your Grade is F</p>");

}

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}

Index.html:-

<!**DOCTYPE** html>

<**html**>

<**head**>

<**meta** charset=*"UTF-8"*>

<**title**>Grade calculator</**title**>

</**head**>

<**body**>

<**center**>

<**form** method=*"get"* action=*"result"* style="color:*DodgerBlue*;">

<**h2** style="color:*Tomato*;">Grade Calculator</**h2**><**br**><**br**>

mark-1 :- <**input** type=*"number"* name=*"mark1"*/><**br**><**br**>

mark-2 :- <**input** type=*"number"* name=*"mark2"*/><**br**><**br**>

mark-3 :- <**input** type=*"number"* name=*"mark3"*/><**br**><**br**>

mark-4 :- <**input** type=*"number"* name=*"mark4"*/><**br**><**br**>

mark-5 :- <**input** type=*"number"* name=*"mark5"*/><**br**><**br**>

<**input** style="color:*MediumSeaGreen*;" type=*"submit"* value=*"submit"*/><**br**>

</**form**>

</**center**>

</**body**>

</**html**>

Web.xml:-

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

<**web-app** xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"* id=*"WebApp\_ID"* version=*"4.0"*>

<**display-name**>ServletRequest</**display-name**>

<**welcome-file-list**>

<**welcome-file**>index.html</**welcome-file**>

</**welcome-file-list**>

<**servlet**>

<**servlet-name**>simpleServlet</**servlet-name**>

<**servlet-class**>com.servlet.calculateservlet</**servlet-class**>

</**servlet**>

<**servlet-mapping**>

<**servlet-name**>simpleServlet</**servlet-name**>

<**url-pattern**>/result</**url-pattern**>

</**servlet-mapping**>

</**web-app**>

**WEEK-7B:- ECLIPSE (SERVLET)**

Loginservlet.java:-

package com.servlet;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class loginservlet extends HttpServlet {

protected void doGet(HttpServletRequest req, HttpServletResponse res) throws ServletException, IOException{

PrintWriter pw =res.getWriter();

res.setContentType("text/html");

String name= req.getParameter("username");

String pwd = req.getParameter("userpass");

boolean status=false;

try {

Class.forName("com.mysql.jdbc.Driver");

Connection connection = DriverManager.getConnection("jdbc:mysql://localhost:3306/nitin?useSSL=false","root","Nitin@007");

java.sql.PreparedStatement ps = connection.prepareStatement("select \* from `nitin.my` where name = ? and password =?;");

ps.setString(1, name);

ps.setString(2, pwd);

System.out.println(ps);

ResultSet rs=ps.executeQuery();

status=rs.next();

connection.close();

}

catch(SQLException | ClassNotFoundException e) {

System.out.println(e);

}

if(status) {

pw.print("<p style=color:green>welcome "+name+"</p>");

}

else {

pw.print("<p style=color:green>Username and Password valid</p>");

}

}

protected void doPost(HttpServletRequest req, HttpServletResponse res) throws ServletException, IOException{

doGet(req,res);

}

}

Index.html:-

<!**DOCTYPE** html>

<**html**>

<**head**>

<**meta** charset=*"UTF-8"*>

<**title**>Insert title here</**title**>

</**head**>

<**body**>

<**form** method=*"post"* action=*"login"*>

<**h2**>Login</**h2**><**br**><**br**>

Name: <**input** type=*"text"* name=*"username"*><**br**><**br**>

Password: <**input** type=*"password"* name=*"userpass"*><**br**><**br**>

<**input** type=*"submit"* value=*"Login"*>

</**form**>

</**body**>

</**html**>

Web.xml:-

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

<**web-app** xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"* id=*"WebApp\_ID"* version=*"4.0"*>

<**display-name**>ServletRequest</**display-name**>

<**welcome-file-list**>

<**welcome-file**>index.html</**welcome-file**>

</**welcome-file-list**>

<**servlet**>

<**servlet-name**>abc</**servlet-name**>

<**servlet-class**>com.servlet.loginservlet</**servlet-class**>

</**servlet**>

<**servlet-mapping**>

<**servlet-name**>abc</**servlet-name**>

<**url-pattern**>/login</**url-pattern**>

</**servlet-mapping**>

</**web-app**>

**WEEK-8A:- ECLIPSE (JSP)**

Factorial.jsp:-

<%@ **page** language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!**DOCTYPE** html>

<**html**>

<**head**>

<**meta** charset=*"UTF-8"*>

<**title**>Insert title here</**title**>

</**head**>

<**body**>

<%!

int find\_factorial(int n)

{

if(n==0)

return 1;

return n\*find\_factorial(n-1);

}

%>

<%

String inp=request.getParameter("num");

if(inp!=null)

{

int px=Integer.parseInt(inp);

int fact=find\_factorial(px);

out.println("<h1>Factorial = " + fact+"</h1");

}

%>

</**body**>

</**html**>

Index.html:-

<!**DOCTYPE** html>

<**html**>

<**head**>

<**meta** charset=*"UTF-8"*>

<**title**>Factorial of a Number</**title**>

<**style**>

form{

border:*1px solid black*;

margin:*15% 35%*;

padding:*2%*;

}

</**style**>

</**head**>

<**body**>

<**form** action=*"factorial.jsp"*>

<**h1**>Factorial Calculator</**h1**>

Enter a number : <**input** type=*"number"* name=*"num"*/><**br**><**br**>

<**input** type=*"submit"* value=*"submit"*/>

</**form**>

</**body**>

</**html**>

**WEEK-8B:-ECLIPSE (JSP)**

Validation.jsp:-

<%@ **page** language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!**DOCTYPE** html>

<**html**>

<**head**>

<**meta** charset=*"UTF-8"*>

<**title**>Insert title here</**title**>

<**style**>

section{

width:*20%*;

margin-top:*15%*;

margin-left:*auto*;

margin-right:*auto*;

border:*1px solid black*;

padding:*1%*;

}

</**style**>

</**head**>

<**body**>

<**section**>

<%

String studentname=(String)request.getParameter("studentname");

String fathername=(String)request.getParameter("fathername");

String mothername=(String)request.getParameter("mothername");

String gender=(String)request.getParameter("gender");

String date=(String)request.getParameter("date");

String email=(String)request.getParameter("email");

String level=(String)request.getParameter("level");

String mobile=(String)request.getParameter("mobile");

out.print("Student name: "+ studentname+"<br>");

out.print("Father name: "+ fathername+"<br>");

out.print("Mother name: "+ mothername+"<br>");

out.print("Gender: "+ gender+"<br>");

out.print("Date: "+ date+"<br>");

out.print("Email: "+ email+"<br>");

out.print("Education Level: "+ level+"<br>");

out.print("Mobile: "+ mobile+"<br>");

%>

</**section**>

</**body**>

</**html**>

registrationform.html:-

<!**DOCTYPE** html>

<**html** lang=*"en"*>

<**head**>

<**meta** charset=*"UTF-8"*>

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

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

<**title**>Reg</**title**>

<**style** type=*"text/css"*>

table{

margin-top: *10%*;

margin-left:*auto*;

margin-right:*auto*;

border: *1px solid black*;

}

td,th{

padding:*10px 20px*;

text-align:*center*;

}

.inptxt{

width:*100%*;

}

</**style**>

<**script**>

**function** validate(){

**var** studentname=document.myform.studentname.value;

**var** fathername=document.myform.fathername.value;

**var** mothername=document.myform.mothername.value;

**var** email=document.myform.email.value;

**var** gender=document.myform.gender.value;

**var** date=document.myform.date.value;

**var** level=document.myform.level.value;

**var** atpos=email.indexOf('@');

**var** dotpos=email.indexOf('.');

**var** mobile=document.myform.mobile.value;

**if**(studentname==""){

document.getElementById("error").innerHTML="Enter Student name";

document.myform.studentname.focus();

**return** **false**;

}

**if**(studentname.length<6){

document.getElementById("error").innerHTML="enter Student name greater than 6 letters";

document.myform.studentname.focus();

**return** **false**;

}

**if**(fathername==""){

document.getElementById("error").innerHTML="Enter Father name";

document.myform.fathername.focus();

**return** **false**;

}

**if**(fathername.length<6){

document.getElementById("error").innerHTML="enter Father name greater than 6 letters";

document.myform.fathername.focus();

**return** **false**;

}

**if**(mothername==""){

document.getElementById("error").innerHTML="Enter Mother Student name";

document.myform.mothername.focus();

**return** **false**;

}

**if**(mothername.length<6){

document.getElementById("error").innerHTML="enter Mother name greater than 6 letters";

document.myform.mothername.focus();

**return** **false**;

}

**if**(gender==""){

document.getElementById("error").innerHTML="select gender";

document.myform.mothername.focus();

**return** **false**;

}

**if**(date==""){

document.getElementById("error").innerHTML="select date";

document.myform.mothername.focus();

**return** **false**;

}

**if**(email==""){

document.getElementById("error").innerHTML="Email Can't be empty";

document.myform.email.focus();

**return** **false**;

}

**if**(atpos==0 || dotpos-atpos<=2 || email.length-dotpos<=2){

document.getElementById("error").innerHTML="Enter valid Email";

document.myform.email.focus();

**return** **false**;

}

**if**(level==""){

document.getElementById("error").innerHTML="select level of education";

document.myform.level.focus();

**return** **false**;

}

**if**(mobile.length!=10){

document.getElementById("error").innerHTML="Enter Phone Number";

document.myform.mobile.focus();

**return** **false**;

}

**return** **true**;

}

</**script**>

</**head**>

<**body**>

<**table** border=*"0"* cellpadding=*"0"* cellspacing=*"0"*>

<**form** action=*"validation.jsp"* name=*"myform"* method=*"post"* onsubmit="return validate()">

<**tr**><**th** colspan=*2*>STUDENT REGISTRATION</**th**></**tr**>

<**tr**>

<**td**>Student Name:</**td**><**td**>

<**input** type=*"text"* name=*"studentname"* class=*"inptxt"*></**td**>

</**tr**>

<**tr**>

<**td**>Father Name:</**td**>

<**td**><**input** type=*"text"* name=*"fathername"* class=*"inptxt"*></**td**>

</**tr**>

<**tr**>

<**td**>Mother Name:</**td**>

<**td**> <**input** type=*"text"* name=*"mothername"* class=*"inptxt"*></**td**>

</**tr**>

<**tr**>

<**td**>Gender:</**td**>

<**td**><**input** type=*"radio"* name=*"gender"* value=*"male"*>male <**input** type=*"radio"* name=*"gender"* value=*"female"*>female <**input** type=*"radio"* name=*"gender"* value=*"others"*>others</**td**>

</**tr**>

<**tr**>

<**td**>Date of Birth:</**td**>

<**td**> <**input** type=*"date"* name=*"date"* class=*"inptxt"*></**td**>

</**tr**>

<**tr**>

<**td**>Email:</**td**>

<**td**> <**input** type=*"text"* name=*"email"* class=*"inptxt"*></**td**>

</**tr**>

<**tr**>

<**td**>Level:</**td**>

<**td**>

<**select** id=*"cars"* name=*"level"* class=*"inptxt"*>

<**option** value=*""*></**option**>

<**option** value=*"primary"*>Primary</**option**>

<**option** value=*"secondary"*>Secondary</**option**>

<**option** value=*"intermidiate"*>Intermediate</**option**>

<**option** value=*"under graduation"*>Under Graduation</**option**>

</**select**>

</**td**>

</**tr**>

<**tr**>

<**td**>Mobile: </**td**>

<**td**><**input** type=*"number"* name=*"mobile"* class=*"inptxt"*></**td**>

</**tr**>

<**tr**><**td** colspan=*2*><**p** id=*"error"* style="color: *red*;"></**p**></**td**></**tr**>

<**tr**>

<**td**><**input** type=*"reset"* value=*"reset"*></**td**>

<**td**><**input** type=*"submit"* value=*"submit"*></**td**>

</**tr**>

</**form**>

</**table**>

</**body**>

</**html**>

**WEEK-9A:- VS CODE (AJAX)**

Week-9a.html:-

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

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

<title>AJAX</title>

</head>

<body>

<center>

<div id="demo">

<h3>SUN</h3>

<button type="button" onclick="loadDoc()">Discription</button>

</div>

</center>

<script>

function loadDoc() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {

document.getElementById("demo").innerHTML = this.responseText;

}

};

xhttp.open("GET", "week-9a.txt", true);

xhttp.send();

}

</script>

</body>

</html>

Week-9a.txt:-

SUN RISES IN THE EAST

**WEEK-9B:- VS CODE (AJAX)**

Week-9b.html:-

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>AJAX</title>

</head>

<body>

<session>

<h1>CAR DETAILS</h1>

<p id="demo"><button onclick="load()">display</button></p>

</session>

<script>

function load() {

const dbParam = JSON.stringify({

table: "customers",

limit: 20

});

const xmlhttp = new XMLHttpRequest();

xmlhttp.onload = function() {

const myobj = JSON.parse(this.responseText);

let text = "<table border='1'>"

for (let x in myobj) {

text += "<tr><td>" + myobj[x].carno + "</td><td>" + myobj[x].carname + "</td><td>" + myobj[x].carmodel + "</td></tr>";

}

text += "</table>"

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

}

xmlhttp.open("POST", "week-9b.json");

xmlhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");

xmlhttp.send("x=" + dbParam);

}

</script>

</body>

</html>

Week-9b.json:-

[

{

"carno" : "1946",

"carname" :"BMW",

"carmodel" : "X2"

},

{

"carno" : "1947",

"carname" :"NISSAN",

"carmodel" : "MICRA"

}

]

**WEEK-10:- XAMPP (PHP)**

db.php:-

<?php

$dbhost="localhost";

$dbuser="root";

$dbpass="";

$dbname="quiz";

$connection= mysqli\_connect($dbhost,$dbuser,$dbpass,$dbname);

if(mysqli\_connect\_errno()){

die("Database connection failed");

}

?>

Final.php:-

<?php

session\_start();

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

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

<title>Document</title>

<style>

/\* Set default styles for the entire page \*/

\* {

box-sizing: border-box;

margin: 0;

padding: 0;

}

/\* Apply styles to the body element \*/

body {

font-family: Arial, sans-serif;

font-size: 16px;

line-height: 1.5;

background-color: #f0f0f0;

}

/\* Center the main content in the page \*/

main {

max-width: 600px;

margin: 0 auto;

padding: 20px;

background-color: #fff;

border: 1px solid #ccc;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);

}

/\* Style the results title \*/

h2 {

font-size: 32px;

margin-bottom: 20px;

}

/\* Style the congratulations message \*/

p:first-of-type {

font-size: 24px;

margin-bottom: 20px;

}

/\* Style the score message \*/

#score {

font-size: 24px;

margin-bottom: 20px;

}

/\* Style the retake test button \*/

button {

display: block;

width: 100%;

max-width: 200px;

margin: 20px auto 0;

padding: 10px 20px;

border: none;

border-radius: 5px;

background-color: #007bff;

color: #fff;

font-size: 18px;

cursor: pointer;

transition: background-color 0.3s ease;

}

/\* Change button background color on hover \*/

button:hover {

background-color: #0069d9;

}

</style>

</head>

<body>

<main>

<div>

<h2>Results</h2>

<p>Congratulations You have comnpleted this test successfully.</p>

<p id="score">Your Score is <?php echo $\_SESSION['score'];?></p>

<?php unset($\_SESSION['score']); ?>

<button onclick="location.href = 'index.php';">Retake Test</button>

</div>

</main>

</body>

</html>

Index.php:-

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

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

<title>Document</title>

<style>

/\* Set default styles for the entire page \*/

\* {

box-sizing: border-box;

margin: 0;

padding: 0;

}

/\* Apply styles to the body element \*/

body {

font-family: Arial, sans-serif;

font-size: 16px;

line-height: 1.5;

background-color: #f0f0f0;

}

/\* Center the main content in the page \*/

main {

max-width: 600px;

margin: 0 auto;

padding: 20px;

background-color: #fff;

border: 1px solid #ccc;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);

}

/\* Style the heading \*/

h1 {

font-size: 32px;

text-align: center;

margin-bottom: 20px;

}

/\* Style the button \*/

button {

display: block;

width: 100%;

max-width: 200px;

margin: 20px auto 0;

padding: 10px 20px;

border: none;

border-radius: 5px;

background-color: #007bff;

color: #fff;

font-size: 18px;

cursor: pointer;

transition: background-color 0.3s ease;

}

/\* Change button background color on hover \*/

button:hover {

background-color: #0069d9;

}

</style>

</head>

<body>

<main>

<h1>QUIZ APPLICATION</h1><br>

<button onclick="location.href = 'quiz.php?n=1';">START QUIZ</button>

</main>

</body>

</html>

Process.php:-

<?php include 'db.php'; ?>

<?php

session\_start();

?>

<?php

if(!isset($\_SESSION['score'])){

$\_SESSION['score']=0;

}

if($\_POST){

$query="SELECT \* FROM questions";

$total\_questions=mysqli\_num\_rows(mysqli\_query($connection,$query));

$number=$\_POST['number'];

$selected\_choice=$\_POST['choice'];

$next=$number+1;

$query="SELECT \* FROM options WHERE question\_no=$number AND is\_correct=1";

$result=mysqli\_query($connection,$query);

$row=mysqli\_fetch\_assoc($result);

$correct\_choice=$row['id'];

if($selected\_choice==$correct\_choice){

$\_SESSION['score']++;

}

if($number == $total\_questions){

header("LOCATION: final.php");

}

else{

header("LOCATION: quiz.php?n=". $next);

}

}

?>

<!-- <!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

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

<title>Document</title>

</head>

<body>

hello

</body>

</html> -->

Quiz.php:-

<?php

include 'db.php';

session\_start();

$number=$\_GET['n'];

$query="SELECT \* FROM questions WHERE question\_no = $number";

$result= mysqli\_query($connection,$query);

$question=mysqli\_fetch\_assoc($result);

$query="SELECT \* FROM options WHERE question\_no=$number";

$choices=mysqli\_query($connection,$query);

$query="SELECT \* FROM questions";

$total\_questions=mysqli\_num\_rows(mysqli\_query($connection,$query));

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

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

<title>Document</title>

<style>

/\* Set default styles for the entire page \*/

\* {

box-sizing: border-box;

margin: 0;

padding: 0;

}

/\* Apply styles to the body element \*/

body {

font-family: Arial, sans-serif;

font-size: 16px;

line-height: 1.5;

background-color: #f0f0f0;

}

/\* Center the main content in the page \*/

main {

max-width: 600px;

margin: 0 auto;

padding: 20px;

background-color: #fff;

border: 1px solid #ccc;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);

}

/\* Style the question number \*/

.qno {

font-size: 18px;

margin-bottom: 10px;

}

/\* Style the question \*/

.question {

font-size: 24px;

margin-bottom: 20px;

}

/\* Style the choices list \*/

.choicess {

list-style: none;

margin-bottom: 20px;

}

/\* Style the choice items \*/

.choicess li {

margin-bottom: 10px;

}

/\* Style the radio buttons \*/

.choicess input[type="radio"] {

margin-right: 10px;

}

/\* Style the submit button \*/

#submit {

display: block;

width: 100%;

max-width: 200px;

margin: 20px auto 0;

padding: 10px 20px;

border: none;

border-radius: 5px;

background-color: #007bff;

color: #fff;

font-size: 18px;

cursor: pointer;

transition: background-color 0.3s ease;

}

/\* Change button background color on hover \*/

#submit:hover {

background-color: #0069d9;

}

</style>

</head>

<body>

<main>

<div class="qno">Question <?php echo $number; ?> of <?php echo $total\_questions; ?></div>

<session>

<p class="question"><strong><?php echo $number; ?>. <?php echo $question['question\_txt'];?></strong></p>

<form method="post" action="process.php">

<ul class="choicess">

<?php while($row=mysqli\_fetch\_assoc($choices)){ ?>

<li><input type="radio" name="choice" id="" value="<?php echo $row['id']; ?>"><?php echo $row['coption']; ?></li>

<?php } ?>

</ul>

<input type="hidden" name="number" value="<?php echo $number; ?>">

<input type="submit" name="submit" value="Submit" id="submit">

</form></session>

</main>

</body>

</html>

**WEEK-12:- VS CODE (XML)**

exp-12.html:-

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

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

<title>Document</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

}

h1 {

color: #333;

font-size: 2em;

text-align: center;

}

button {

background-color: #333;

border: none;

color: white;

padding: 10px 20px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

cursor: pointer;

margin-bottom: 20px;

}

table {

border-collapse: collapse;

margin: 0 auto;

}

th,

td {

padding: 10px;

text-align: left;

}

th {

background-color: #333;

color: white;

}

tr:nth-child(even) {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<center>

<h1>The XMLHttpRequest Object</h1>

<button type="button" onclick="loadDoc()">Get my CD collection</button>

<br><br>

<table id="demo" border="1" cellspacing="0" cellpadding="0"></table>

</center>

<script>

function loadDoc() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {

myFunction(this);

}

};

xhttp.open("GET", "cd\_catalog.xml", true);

xhttp.send();

}

function myFunction(xml) {

var i;

var xmlDoc = xml.responseXML;

var table = "<tr><th>AUTHOR</th><th>TITLE</th></tr>";

var x = xmlDoc.getElementsByTagName("book");

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

table += "<tr><td>" +

x[i].getElementsByTagName("author")[0].childNodes[0].nodeValue +

"</td><td>" +

x[i].getElementsByTagName("title")[0].childNodes[0].nodeValue +

"</td></tr>";

}

document.getElementById("demo").innerHTML = table;

}

</script>

</body>

</html>

cd\_catalog.xml:-

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

<bookstore>

<book>

<title lang="en">Harry Potter</title>

<author>J K. Rowling</author>

<year>2005</year>

<price>29.99</price>

</book>

<book>

<title lang="en">Lord of the rings</title>

<author>J.r.r.Jolkien</author>

<year>2006</year>

<price>2000</price>

</book>

<book>

<title lang="en">Don Quixote</title>

<author>Miguel de cervates</author>

<year>2008</year>

<price>400</price>

</book>

<book>

<title lang="en">Anne of green gables</title>

<author>L.M.Montgomery</author>

<year>2010</year>

<price>500</price>

</book>

</bookstore>

**WEEK-13:- ECLIPSE (RESTFUL SPRINGBOOT)**

DemoApplication.java:-

package com.example.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class DemoApplication {

public static void main(String[] args) {

SpringApplication.run(DemoApplication.class, args);

}

}

DemoController.java:-

package com.example.demo;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.bind.annotation.RestController;

@RestController

public class DemoController {

@GetMapping("/Mapping")

public String Demo(@RequestParam String name, @RequestParam Integer age){

return name+",your age is "+ age;

}

}

DemoService.java:-

package com.example.demo;

import org.springframework.stereotype.Service;

*@Service*

public class DemoService {

public String getStudent(String name, Integer age)

{

return name+",your age is "+ age;

}

}