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**BRANCH: IT**

A.P PRACTICLE FILE

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, SONEPAT**

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**Experiment 1 :**

*Create an HTML web page form*

**HTML CODE**

<!DOCTYPE html>

<html>

<head>

<title>Registration Page</title>

<style type="text/css">

\* {box-sizing: border-box

}

.container {

padding: 16px;

margin: auto;

text-align: center;

}

input[type=text], input[type=password],input[type="email"] {

width: 50%;

padding: 15px;

margin: 5px 0 22px 0;

display: inline-block;

border: none;

background: #f1f1f1;

}

input[type=text]:focus, input[type=password]:focus,input[type="email"]:focus {

background-color: #ddd;

outline: none;

}

hr {

border: 1px solid #f1f1f1;

margin-bottom: 25px;

}

#registerbtn {

background-color: #4CAF50;

color: white;

padding: 16px 20px;

margin: 8px 0;

border: none;

cursor: pointer;

width: 100%;

opacity: 0.9;

}

#registerbtn:hover {

opacity:1;

}

</style>

</head>

<body>

<form>

<div class="container">

<h1>Register</h1>

<hr>

Name: <input type="text" id="name" placeholder="Enter your name" name="name"><br>

City: <input type="text" placeholder="Enter your name" name="name"><br>

Email: <input type="email" placeholder="Enter your mail address" name="mail"><br>

Password: <input type="password" placeholder="Enter the password" name="pwd"><br>

Gender:<br>

Male<input type="radio" name="gender">

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

Others<input type="radio" name="gender"><br>

</div>

<div >

<button type="submit" id="registerbtn">Register</button>

</div>

</form>

</div>

</body>

<script type="text/javascript">

document.getElementById("registerbtn").addEventListener("click",function(e){

var fieldValue=document.getElementById("name").value;

if(fieldValue==null || fieldValue== ""){

e.preventDefault();

alert("you must enter a username");

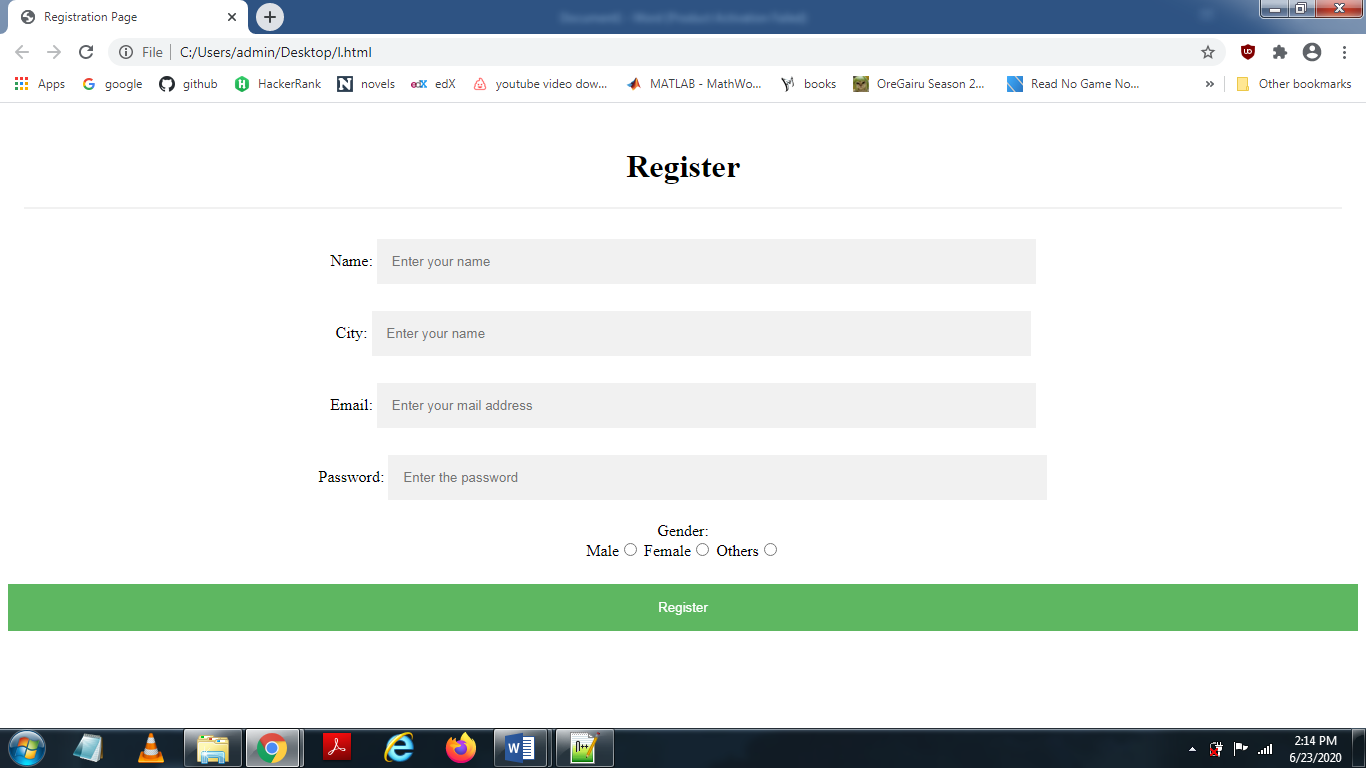
}

});

</script>

</html>

**OUTPUT**



**Experiment 2 :**

#### Create a home page using HTML.

**HTML CODE**

Main file

<!DOCTYPE html>

<html>

<frameset rows="27%,8%,\*,15%">

<frame src="up.html">

<frame src="button.html">

<frameset cols="25%,\*,25%">

<frame src="left.html">

<frame src="middle.html">

<frame src="right.html">

</frameset>

<frame src="down.html">

</frameset>

<head>

<title>IIIT SONEPAT</title>

</head>

<body>

</body>

</html>

UP FILE

<html>

<head>

<style>

img.p

{position:absolute;

top: 85px;

left:50%;

transform:translate(-50%,-50%) }

</style>

</head>

<body>

<img src="C:\Users\admin\Desktop\comp\html\iiits.png" alt="college logo" height="150" width="1000px" class="p">

</body> </html>

DOWN FILE

<!DOCTYPE html>

<htmml>

<head>

<style>

img.p

{ position:absolute;

bottom:12px;

right:45px; }

.a {

color:azure; }

</style>

</head>

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

<img src="C:\Users\admin\Desktop\comp\html\mhrd.jpg" alt="MHRD" width="150px" class="p" >

<h4 class="a">Phone no:01744-233189, 7496966902, 9729077477<br>

Email address:- sonepatiiit@gmail.com</h4>

</body></html>

MIDDLE FILE

<!DOCTYPE html>

<html>

<head>

</head>

<body>

<center>

<img src="

//Image link// (NEED TO INCREASE SIZE OF BOX TO SEE)

data:image/jpeg;base64,

">

</center>

</body>

</html>

LEFT FILE

<!DOCTYPE html>

<html>

<head>

<style>

.c

{

color:darkslategrey;

position: absolute;

padding:65px 5px;

font-size: 160%;

}

</style>

</head>

<body>

<pre class="c">

Name :- Tushar Singh

Branch :- IT

Email ID:- Tusharsingh62195<br> @gmail.com

</pre>

</body>

</html>

RIGHT FILE

<!DOCTYPE html>

<html>

<style>

.i

{

color:darkslategray;

font-size:130%;

}

</style>

<head>

</head>

<body>

<center>

<img src="https://nitdelhi.ac.in/profile/Dr.AnuragSingh/Phd\_Students/arquam" width="240"height="240"><br>

<b class="i">Mr.Md Arquam</b>

</center>

</body>

</html>

BUTTON FILE

<!DOCTYPE html>

<html>

<head>

<style>

a:link

{

color:white;

background-color: transparent;

text-decoration: none;

padding: 4px 30px;

display: inline-block;

font-size:110%;

}

a:visited

{

color:floralwhite;

background-color: transparent;

text-decoration: none;

padding: 4px 30px;

display: inline-block;

font-size:110%;

}

a:hover

{color:lightgray;

background-color:dimgrey;

text-decoration:none;

padding: 4px 30px;

display: inline-block;

font-size:110%;}

a:active

{

color:azure;

background-color: transparent;

text-decoration: none;

padding: 4px 30px;

display: inline-block;

font-size:110%;

}

</style>

</head>

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

<center>

<a href="http://iiitsonepat.ac.in/">Home</a>

<a href="http://iiitsonepat.ac.in/admissions/overview">Admission</a>

<a href="http://iiitsonepat.ac.in/lifeatiiit/gallery">Gallery</a>

<a href="http://iiitsonepat.ac.in/placements">Placement</a>

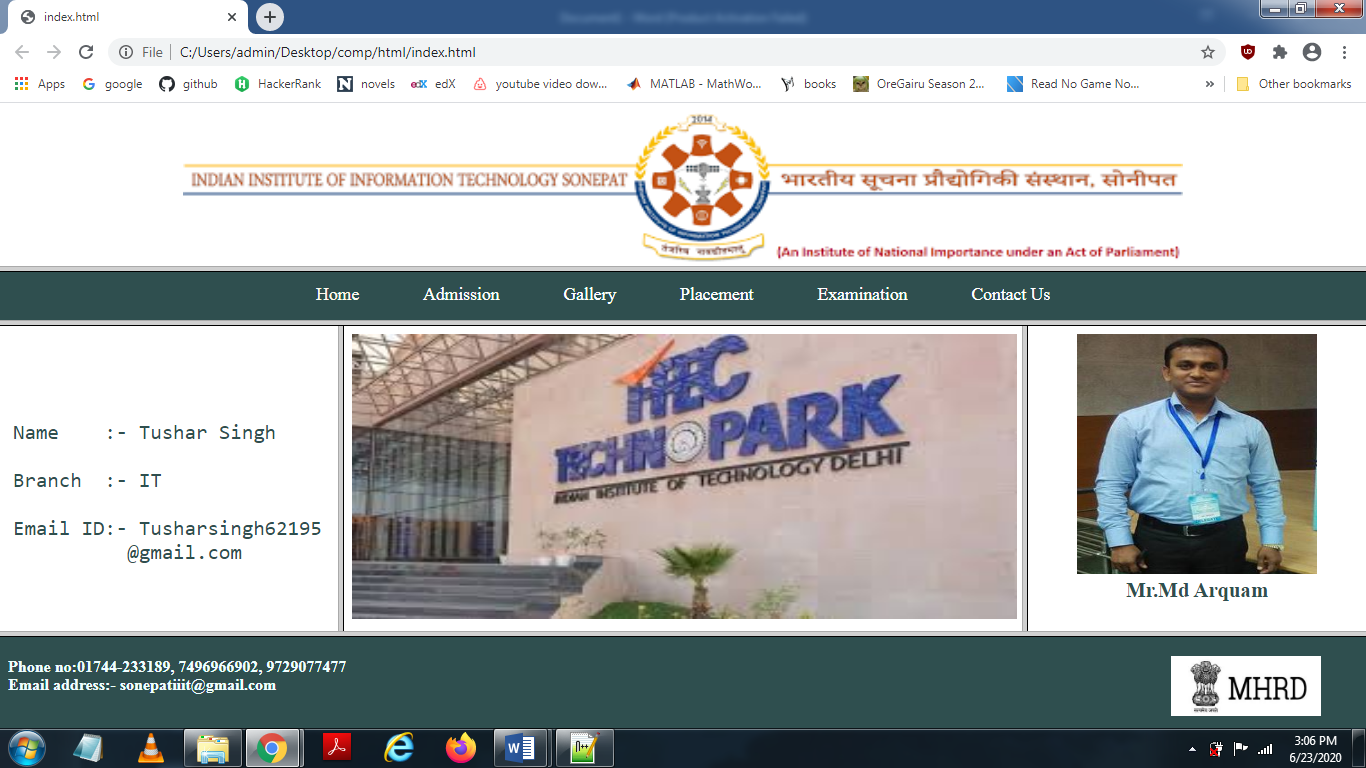
<a href="http://iiitsonepat.ac.in/examinations/schemes">Examination</a>

<a href="http://iiitsonepat.ac.in/contact-us">Contact Us</a>

</center>

</body></html>

**OUTPUT**



**Experiment 3 :**

#### Creating a web page using XHTML and CSS to understand its use.

**HTML FILE**

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"

"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html lang="en" dir="ltr">

<head>

<title>Registration Page</title>

<link rel="stylesheet" type="text/css" href="ap3.css">

</head>

<body>

<form>

<div class="container">

<h1>Register</h1>

<hr>

Name: <input type="text" id="name" placeholder="Enter your name" name="name"><br>

City: <input type="text" placeholder="Enter your name" name="name"><br>

Email: <input type="email" placeholder="Enter your mail address" name="mail"><br>

Password: <input type="password" placeholder="Enter the password" name="pwd"><br>

Gender:<br>

Male<input type="radio" name="gender">

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

Others<input type="radio" name="gender"><br>

</div>

<div >

<button type="submit" id="registerbtn">Register</button>

</div>

</form>

</div>

</body>

<script type="text/javascript">

document.getElementById("registerbtn").addEventListener("click",function(e){

var fieldValue=document.getElementById("name").value;

if(fieldValue==null || fieldValue== ""){

e.preventDefault();

alert("you must enter a username");

}

});

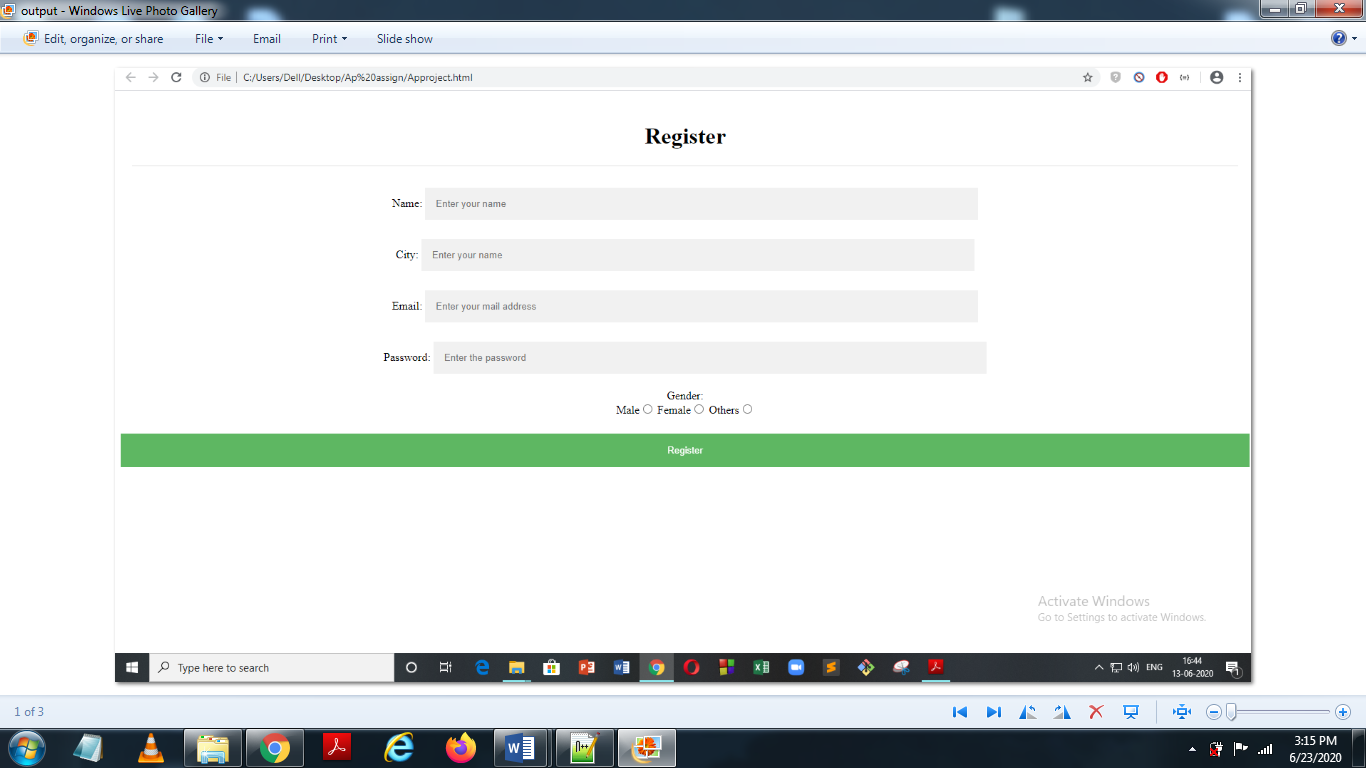
</script>

</html>

**CSS FILE**

|  |
| --- |
| \* {box-sizing: border-box |
|  | } |
|  |  |
|  | .container { |
|  | padding: 16px; |
|  | margin: auto; |
|  | text-align: center; |
|  | } |
|  | input[type=text], input[type=password],input[type="email"] { |
|  | width: 50%; |
|  | padding: 15px; |
|  | margin: 5px 0 22px 0; |
|  | display: inline-block; |
|  | border: none; |
|  | background: #f1f1f1; |
|  | } |
|  |  |
|  | input[type=text]:focus, input[type=password]:focus,input[type="email"]:focus { |
|  | background-color: #ddd; |
|  | outline: none; |
|  | } |
|  | hr { |
|  | border: 1px solid #f1f1f1; |
|  | margin-bottom: 25px; |
|  | } |
|  | #registerbtn { |
|  | background-color: #4CAF50; |
|  | color: white; |
|  | padding: 16px 20px; |
|  | margin: 8px 0; |
|  | border: none; |
|  | cursor: pointer; |
|  | width: 100%; |
|  | opacity: 0.9; |
|  | } |
|  | #registerbtn:hover { |
|  | opacity:1; |
|  | } |

**OUTPUT**

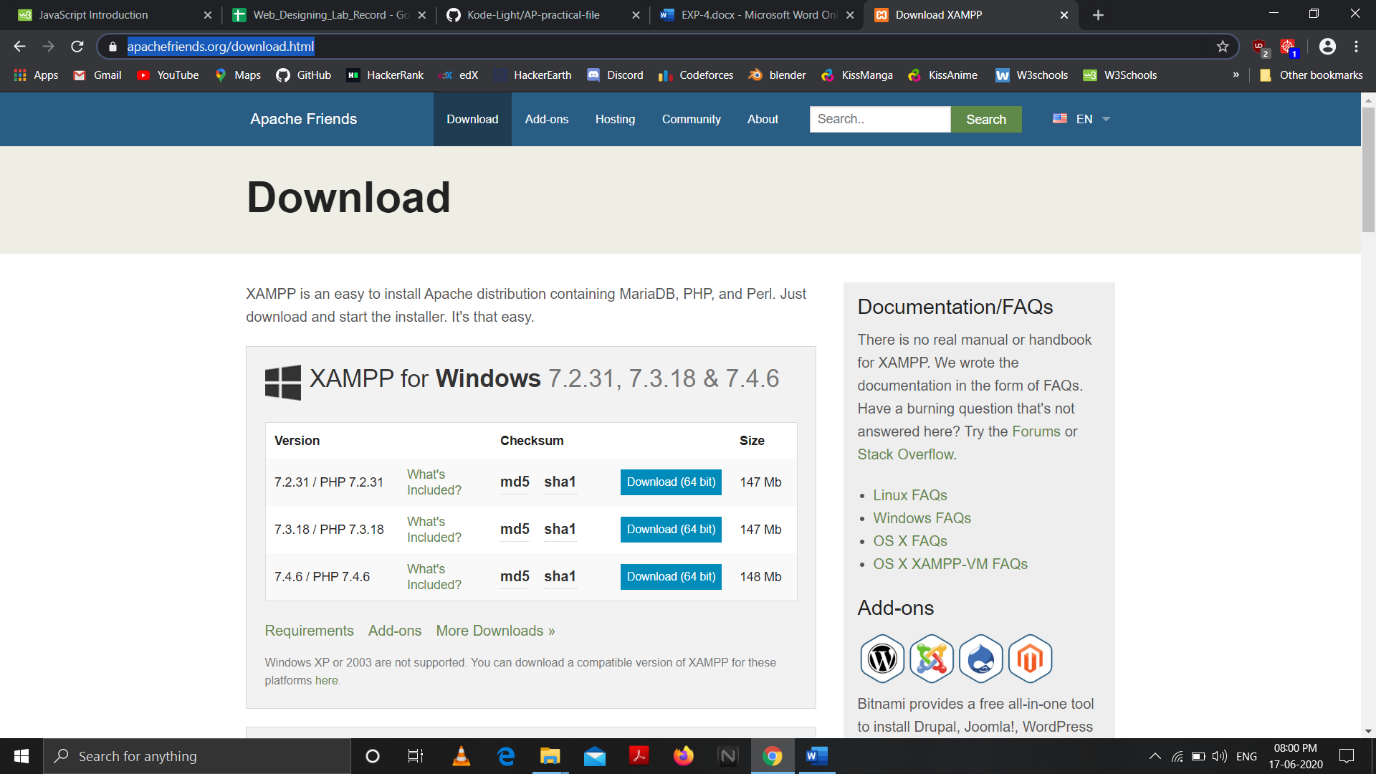


# **Experiment 4 :**

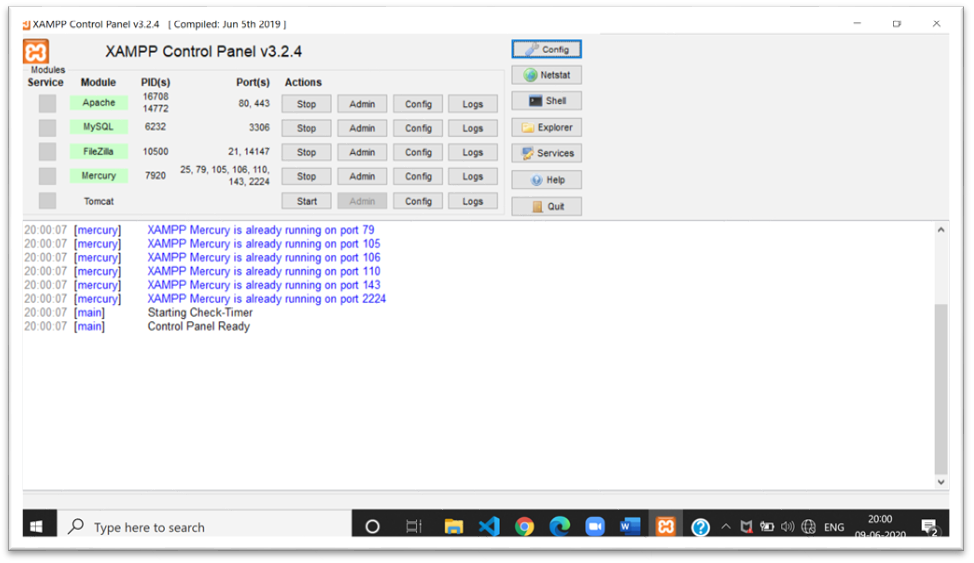
### *Setting up and configuring Tomcat server.*

**PROCEDURE:**

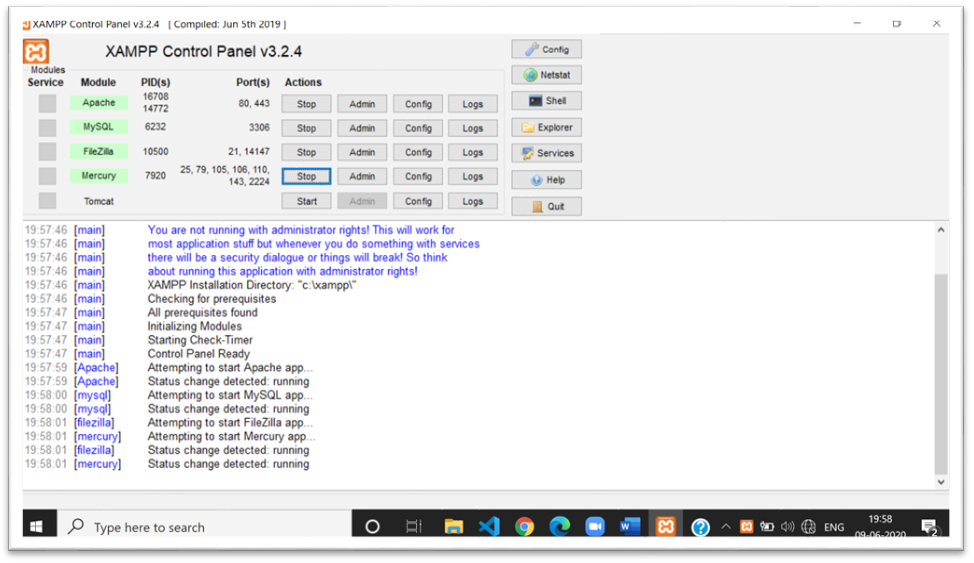
1. Download XAMPP Server from <https://www.apachefriends.org/download.html>



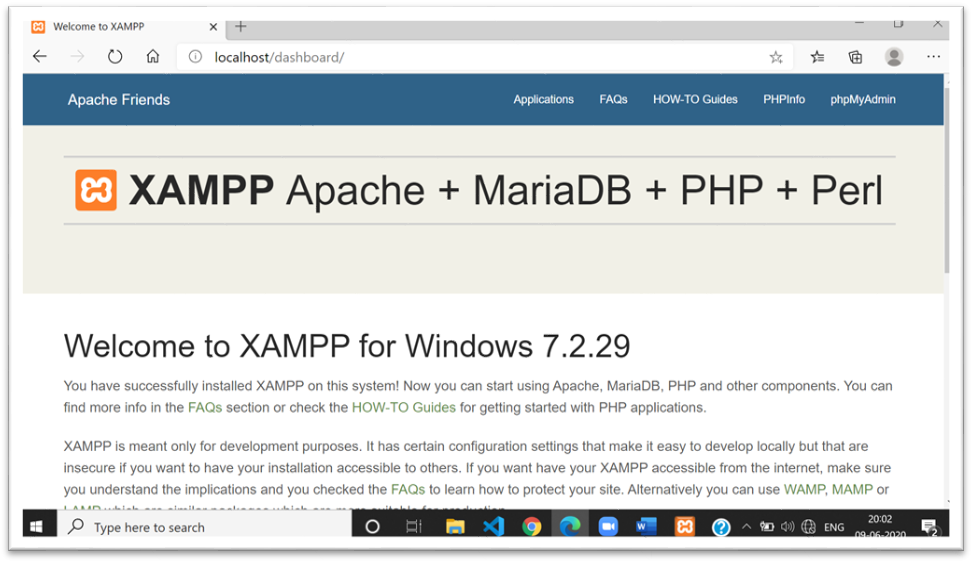
1. Open XAMPP Control Panel.



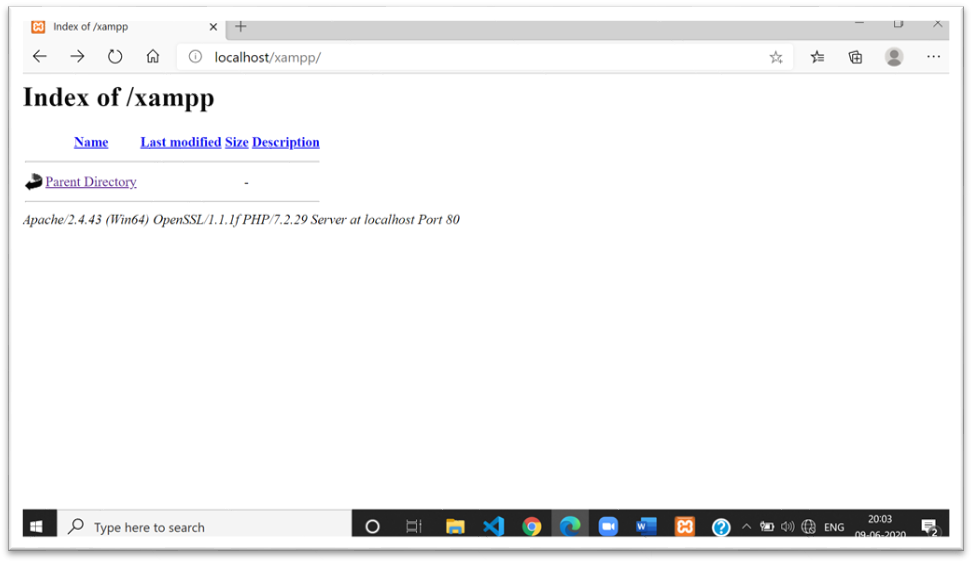
1. Switch on Start to start the servers.



1. XAMPP localhost server is being set up now. Open localhost in any web browser.



1. Open XAMPP directory in the localhost and run your code.



**Experiment 5 :**

***Understanding modification of Web.XML*.**

**Web.XML**

The web.xml file is derived from the Servlet specification, and contains information used to deploy and configure our web applications.

When configuring Tomcat, this is where we can define servlet mappings for central components. Within Tomcat, this file functions in the same way as described in the Servlet specification.

Tomcat has two web.xml files one in the conf directory and the other in the web-inf. The only divergence in Tomcat's handling of this file is that a user has the option of utilizing

TOMCAT-PATH/conf/web.xml to define default values for all contexts. If this method is utilized, Tomcat will use TOMCAT-PATH/conf/web.xml as a base configuration, which can be overwritten by application-specific WEB-INF/web.xml files. That is, web.xml in conf defines parameters for all web applications whereas the web.xml in web-inf is applicable to current web applications only.

web-app

The root element of this XML deployment descriptor is ‘web-app’; its elements are shown in the table below. There are no required elements, but you should always have at least a ‘display-name’ element for identification. As of the Servlet specification version 2.4, the elements nested directly under the web-app element may be listed in any order. In cases where more than one of the same element is used and it is unclear which element takes precedence, the servlet container will use them in the order they are listed in the web.xml file.

The table below contains the elements and what they represent.

|  |  |
| --- | --- |
| **Element** | **Meaning** |
| display-name | A name for the web-app in the GUI admin tools |
| description | A description for the web application |

|  |  |
| --- | --- |
| context-params | Context parameters whose values do not change very often |
| servlet | Servlet definitions for the servlets that make up out web application |
| session-config | Defines the default session timeout for our application |

# **Experiment 6 :**

### *Creating websites using php.*

**HTML & PHP CODE:**

<?php if(count($\_POST)>0) {

/\* Validation to ensure all fields are non-empty \*/ foreach($\_POST as $key=>$value) { if(empty($\_POST[$key])) {

$message = ucwords($key) . " field is required"; break;

}

}

/\* Validation about the right format of user email \*/ if(!isset($message)) {

if (!filter\_var($\_POST["userEmail"], FILTER\_VALIDATE\_EMAIL)) {

$message = "Invalid UserEmail";

}

}

if(!isset($message)) {

$message = "You have registered successfully!"; unset($\_POST);

}

}

?>

<html>

<head>

<title>REGISTRATION FORM</title>

<!-- STYLES -->

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384- Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

<link href=["https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap](https://fonts.googleapis.com/css2?family=Poppins%3Awght%40400%3B500%3B600%3B700&display=swap)" rel="stylesheet">

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

</head>

<body>

<div class="flex-container">

<section class="column-1">

<h1>Form Validation Using PHP</h1>

<p></p>

</section>

<section class="column-2">

<p class="card"><span><strong>Registration Form</strong></span></p>

<div class="card">

<form name="frmRegistration" method="post" action="">

<div class="message"><?php if(isset($message)) echo $message; ?> </div>

<div class="form-group">

<input class="form-control" type="text" placeholder="Username" name="userName" value="<?php if(isset($\_POST['userName'])) echo $\_POST['userName']; ?>">

</div>

<div class="form-group">

<input class="form-control" type="text" name="displayName" value="<?php if(isset($\_POST['displayName'])) echo $\_POST['displayName']; ?>" placeholder="Display Name">

</div>

<div class="form-group">

<textarea class="form-control" placeholder="Address" type="userAddress" rows="3" cols="17" name="userAddress"><?php if(isset($\_POST['userAddress'])) echo $\_POST['userAddress'];

?></textarea>

</div>

<div class="form-group">

<input class="form-control" type="email" name="userEmail" value="<?php if(isset($\_POST['userEmail'])) echo $\_POST['userEmail']; ?>" placeholder="Email Address">

</div>

<div class="form-group">

<input class="form-control" type="password" name="password" value="<?php if(isset($\_POST['password'])) echo $\_POST['password']; ?>" placeholder="Password">

</div>

<div class="form-group">

<lable>usertype</lable>

<select name="usertype" >

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

<option value="Member" <?php if(isset($\_POST['userType']) &&

$\_POST['userType']=="Member") { ?>selected<?php } ?>>Member</option>

<option value="Premium User" <?php if(isset($\_POST['userType']) &&

$\_POST['userType']=="Premium User") { ?>selected<?php } ?>>Premium User</option>

</select>

</div>

<div class="form-group">

<button class="form-control" type="submit" id="submit-btn"

name="submit" value="Submit">

<span>SUBMIT</span>

</button>

</div>

<small>By clicking the button, you are agreeing to our <a href="#">Terms and Services</a></small>

</form>

</div>

</section>

</div>

</body>

</html>

**CSS CODE:**

:root {

--red: hsl(0, 100%, 74%);

--blue: hsl(248, 32%, 49%);

--green: hsl(154, 59%, 51%);

--dark-blue: hsl(249, 10%, 26%) ;

--grayish-blue: hsl(246, 25%, 77%);

--dull-white: hsl(249, 100%, 97%);

--wrong-input: hsl(0, 79%, 69%);

--shadow: hsla(249, 10%, 26%, 0.247);

--btn-shadow: hsl(154, 55%, 45%);

--btn-hover: hsl(160, 74%, 60%);

}

body, \* {

font-family: 'Poppins', sans-serif !important;

}

body {

background: url("images/bg-intro-desktop.png"), var(--red); background-size: 100%;

}

.message {

color: rgb(74, 45, 119); font-weight: bold;

text-align: center; width: 100%;

padding: 10;

}

.flex-container { display: flex;

flex-direction: row; align-items: center; padding-top: 90px;

padding-left: 11%; padding-right: 8%;

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* COLUMN-1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

.column-1 {

flex-basis: 50%; align-self: auto; text-align: left;

padding-right: 15px;

}

.column-1 h1 { font-size: 3rem;

font-weight: 700;

line-height: 1.1; color: white;

}

.column-1 p { margin-top: 25px; font-size: 1em; font-weight: 400;

color: var(--dull-white);

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* COLUMN-2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

.column-2 {

flex-basis: 45%; text-align: center;

}

.card { /\* Bootstrap Card \*/ padding: 40px 40px 20px; margin-bottom: 20px; border-radius: 10px;

box-shadow: 0 8px var(--shadow);

}

p.card { /\* Purchase Plan Background \*/ display: block;

padding: 20px 10px 10px; font-size: 0.9em;

font-weight: 600; background: var(--blue);

box-shadow: 0 8px var(--shadow); color: white;

}

p > span { font-weight: 400; color: var(--dull-white);}

div.card { /\* Form Background \*/ margin-top: 25px;

}

.form-control { /\* Input Boxes & Submit Button \*/ padding: 15px 25px;

border-radius: 5px;

}

.form-control:focus { box-shadow: none;

}

input {

font-size: 0.9em !important; font-weight: 600;

}

input:focus {

border: 1px solid black !important;

}

#submit-btn { margin-top: 25px;

padding: 15px 10px 10px; background: var(--green); color: white;

box-shadow: 0 3px 2px var(--btn-shadow); border: none;

}

#submit-btn:hover { background: var(--btn-hover); cursor: pointer;

}

/\* Terms & Conditions \*/ small {

font-size: 0.6em;

color: var(--grayish-blue);

}

small > a {

font-weight: 600; color: var(--red);

}

small > a:hover { color: var(--red);

text-decoration: none;

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* EVENT-BASED APPLICATIONS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\* PRESS ANIMTION \*/

@keyframes press {

50% { transform: translateY(2px); opacity: 0 } 100% { transform: translateY(2px); opacity: 1 }

}

.animate {

animation: press 0.3s -0.02s ease-in-out; }

/\* IN CASE INPUT IS WRONG \*/

input + small {display:none; /\* Will apply in script \*/ text-align: right;

font-style: oblique 10deg;

font-weight: 500;color: var(--wrong-input); margin-top: 5px;

}

.invalid-input {

border: 2px solid var(--wrong-input) !important; color: var(--wrong-input);

background: url("images/icon-error.svg") no-repeat center right 20px;

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MOBILE SITE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ @media screen and (max-width: 800px){

body {

background: url("images/bg-intro-desktop.png"), var(--red);

}.flex-container { display: flex;flex-direction: column; align-items: center; padding-top: 90px;

padding-left: 8%; padding-right: 8%;

}

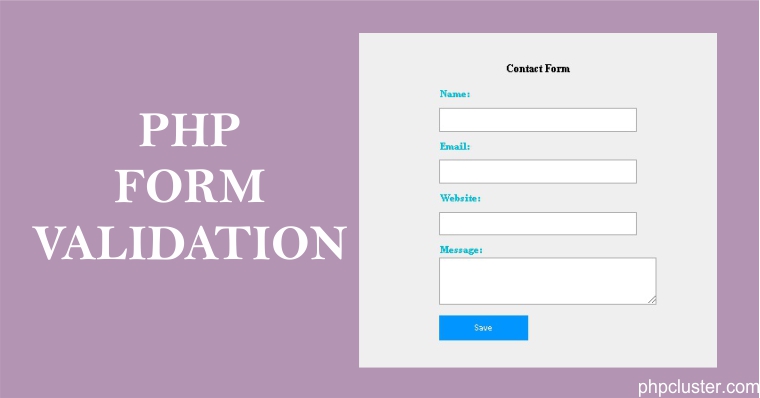
/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* COLUMN-1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

.column-1 {flex-basis: 50%; align-self: auto; text-align: center;

padding-right: 15px;

}

**OUTPUT**

****

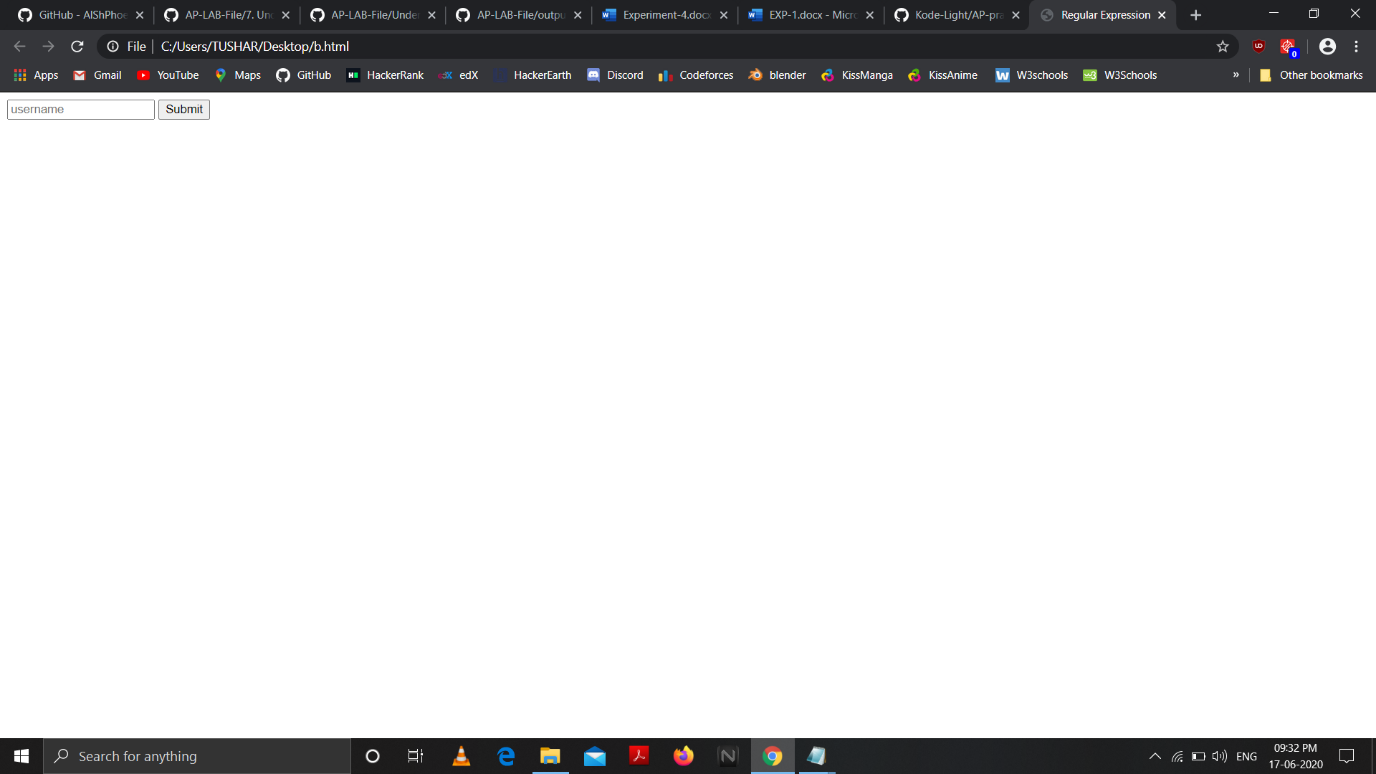
# **Experiment 7 :**

***Understanding JavaScript***

|  |
| --- |
| **CODE**  <!DOCTYPE html> |
|  | <html> |
|  | <head> |
|  | <title>Regular Expression</title> |
|  | <script type="text/javascript"> |
|  | function validate() |
|  | { |
|  | var username=document.getElementById("uname").value; |
|  | var regx=/A00/; |
|  | if(regx.test(username)) |
|  | { |
|  | alert("valid username"); |
|  | } |
|  | else |
|  | { |
|  | alert("Invalid username"); |
|  | } |
|  | } |
|  | </script> |
|  | </head> |
|  | <body> |
|  | <form action="message.html"> |
|  | <input type="text" id="uname" placeholder="username"/> |
|  | <button onclick="validate()">Submit</button> |
|  | </form> |
|  |  |
|  | </body> |

</html>

**OUTPUT**



# **Experiment 8 :**

***Writing and Understanding Program in python. (Using examples)***

EXAMPLES:-

**Question 1**

**Write code that asks the user to input a number between 1 and 5 inclusive. The code will take the integer value and print out the string value. So for example if the user inputs 2 the code will print two. Reject any input that is not a number in that range**

Solution:-

user\_input = int(input('Please enter an integer between 1-5:> ')) if user\_input == 1:

print('one')

elif user\_input == 2: print('two')

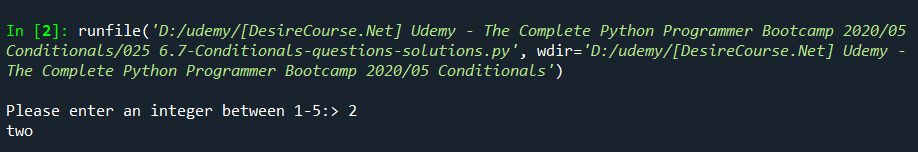
elif user\_input == 3: print('three')

elif user\_input == 4: print('four')

elif user\_input == 5: print('five')

else:

print('Out of range')

**OUTPUT**