APPLICATION PROGRAMMING

LAB FILE

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Information Technology

INDEX

Problem 1

Creating HTML Web Page Forms

```html
<!DOCTYPE html>
<html>
<head>
    <title>Form Exercise: slides</title>
</head>
<body>
<h1>Register</h1>
First Name:<input type="text" placeholder="First" required="true"></br></br>
Last Name:<input type="text" placeholder="Last" required="true">
<p>
    Male<input type="radio" name="Gender">
    Female<input type="radio" name="Gender">
    Others<input type="radio" name="Gender">
</p>
<p>
    Email:<input type="email" required></br></br>
    Password:<input type="password" pattern="{5,10}" title="Must contain 5 to 10 characters only" required>
</p>
<p>
    Birthday:<input type="date">
</p>
<p>
    I agree to terms and condition <input type="checkbox">
</p>
<button onclick="window.location.href = 'mainform.html';">Sign Up</button>
</body>
</html>
```

Output:

Register

First Name: [First]

Last Name: [Last]

Male ○ Female ○ Others ○

Email: [   ]

Password: [   ]

Birthday: [dd - mm - yyyy 📅]

I agree to terms and condition ☐

[Sign Up]

Problem 2
Creating Home Page using HTML
Problem 3
Creating XHTML and CSS and understanding it's use in creating web pages

```html
<!DOCTYPE html>
<html>

<frameset rows="24%,5%,41%,30%" frameborder="no" scrolling="no">
    <frame src="imp.html">
    <frame src="buttons.html">
    <frame src="column.html">
    <frame src="contact.html">
</frameset>
<head>
    <title></title>
</head>
<body>
</body>
</html>
```

imp.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>IIIT Sonepat</title>
</head>
<body>
    <center><img src="logonew.png" width="1000" height="150"></center>
</body>
</html>
```

column.html

```html
<!DOCTYPE html>
<html >
<frameset cols="33%,33%,33%">
    <frame src="news.html">
    <frame src="welcome.html">
    <frame src="regis.html">
</frameset>
<head>
    <title></title>
</head>
<body>

</body>
</html>>
```

buttons.html

```html
<!DOCTYPE html>
<html>
<body style="background-color: #33334d">
<select >
 <option style="background-color: #007a99">HOME</option>
 <option>About IIIT Sonepat</option>
 <option>Vision & Mission</option>
 <option>Director's MEssage</option>
 <option>Governance</option>
 <option>IIIT (PPP) Act</option>
</select>
 <select>
 <option style="background-color: #007a99">Academics</option>
 <option>Academic Programs</option>
 <option>Syllabus</option>
 <option>Academic Guideline</option>
 <option>Fee & Expenses</option>
 <option>Time-Table</option>
</select>
</select>
 <select>
 <option style="background-color: #007a99">Admission</option>
 <option>Overview</option>
 <option>Notificationns</option>
 <option>Helpline</option>
 </select>
 </select>
 <select>
 <option style="background-color: #007a99">Life @ IIITS</option>
 <option>Events</option>
 <option>Facilities & Service</option>
 <option>Hostel</option>
 <option>Anti-Ragging</option>
 <option >Sports</option>
 </select>
 </select>
 <select>
 <option style="background-color: #007a99">Placements</option>
 </select>
 </select>
 <select>
 <option style="background-color: #007a99">Tenders</option>
 </select>
</body>
</html>
```

news.html

```html
<!DOCTYPE html>
<html>
<meta content="width=device-width, initial-scale=1.0">
<head>
    <title>Institute News</title>
</head>
<body>
    <H2>Latest News</H2>
        <marquee><pre>Results of First Semester Declared                    </pre></marquee>
        <a href="http://iiitsonepat.ac.in/storage/Institute-Hostel-fee-even-Sem.pdf" target="-top" style="color-rendering: red" style="color: black">
        <marquee><pre>Institute and Hostel Fee of Even Semester                </pre></marquee>
        <a href="http://iiitsonepat.ac.in/tenders" target="-top" style="color-rendering: red "><marquee><pre>Expression of Interest<b>(EOI)</b> for
        hiring of premises for IIIT Sonepat</pre></marquee>
        <a href="http://iiitsonepat.ac.in/storage/fee%20submission%20notice.pdf" target="-top" style="color-rendering: red" style="color: black"><
        marquee><pre>Hostel Fees submission notice                   </pre></marquee>

        <a href="http://iiitsonepat.ac.in/storage/notifications/Orientation%20Programme%202019.pdf"  target="-top" style="color-rendering: red" style=
        "color: black"><marquee><pre>Orientation Program 2019                    </pre></marquee></a>
</body>
</html>
```

welcome.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>Form Exercise: slides</title>
</head>
<body>
<h2>Register</h2>
Userame:<input type="text" placeholder="" required="true">
<p>
    Male<input type="radio" name="Gender">
    Female<input type="radio" name="Gender">
    Others<input type="radio" name="Gender">
</p>
    <p style="display: inline">E-mail:<pre style="display: inline">   </pre><input type="email" required></p>
    Password : <input type="password" pattern="{5,10}" title="Must contain 5 to 10 characters only" required>

<p>
    Birthday:<input type="date">
</p>
<p>
    <pre><input type="checkbox">I agree to terms and condition                 <button>Sign Up</button> </pre>
</p>

</body>
```

regis.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>Form Exercise: slides</title>
</head>
<body>
<h2>Register</h2>
Userame:<input type="text" placeholder="" required="true">
<p>
    Male<input type="radio" name="Gender">
    Female<input type="radio" name="Gender">
    Others<input type="radio" name="Gender">
</p>
    <p style="display: inline">E-mail:<pre style="display: inline">   </pre><input type="email" required></p>
    Password : <input type="password" pattern="{5,10}" title="Must contain 5 to 10 characters only" required>

<p>
    Birthday:<input type="date">
</p>
<p>
    <pre><input type="checkbox">I agree to terms and condition                 <button>Sign Up</button> </pre>
</p>

</body>
```

contact.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>contact</title>
</head>
<body style="background-color: #33334d">
    <div align="left">

    <h2 ><font color="#ffe6e6"> <u> Contact Us</u> </font></h2>
<p align="justify">
            <font color="#ffe6e6">Email US at:shubham080501@gmail.com
            <br>
            Call us at :+916387365812</font>
        <img src="mhrd.jpg" align="right">
    </p>
    <h3><font color="#ffe6e6">How to reach :</font></h3>
    <font color="#ffe6e6">IIIT Sonepat is located at IIT Delhi Techno Park, Rajiv Gandhi Education City Rai, Sonepat.
<br>
Sonepat is a railway junction on the Delhi-Panipat-Ambala section of the Northern Railway. It is about 40 kms. from ISBT Delhi and 56 Km from Panipat
a well known historical place on Sher Shah Suri Marg.</font>
</div>
</body>
</html>
```

Output:

Problem 4
Setting up and configuration of XAMPP server
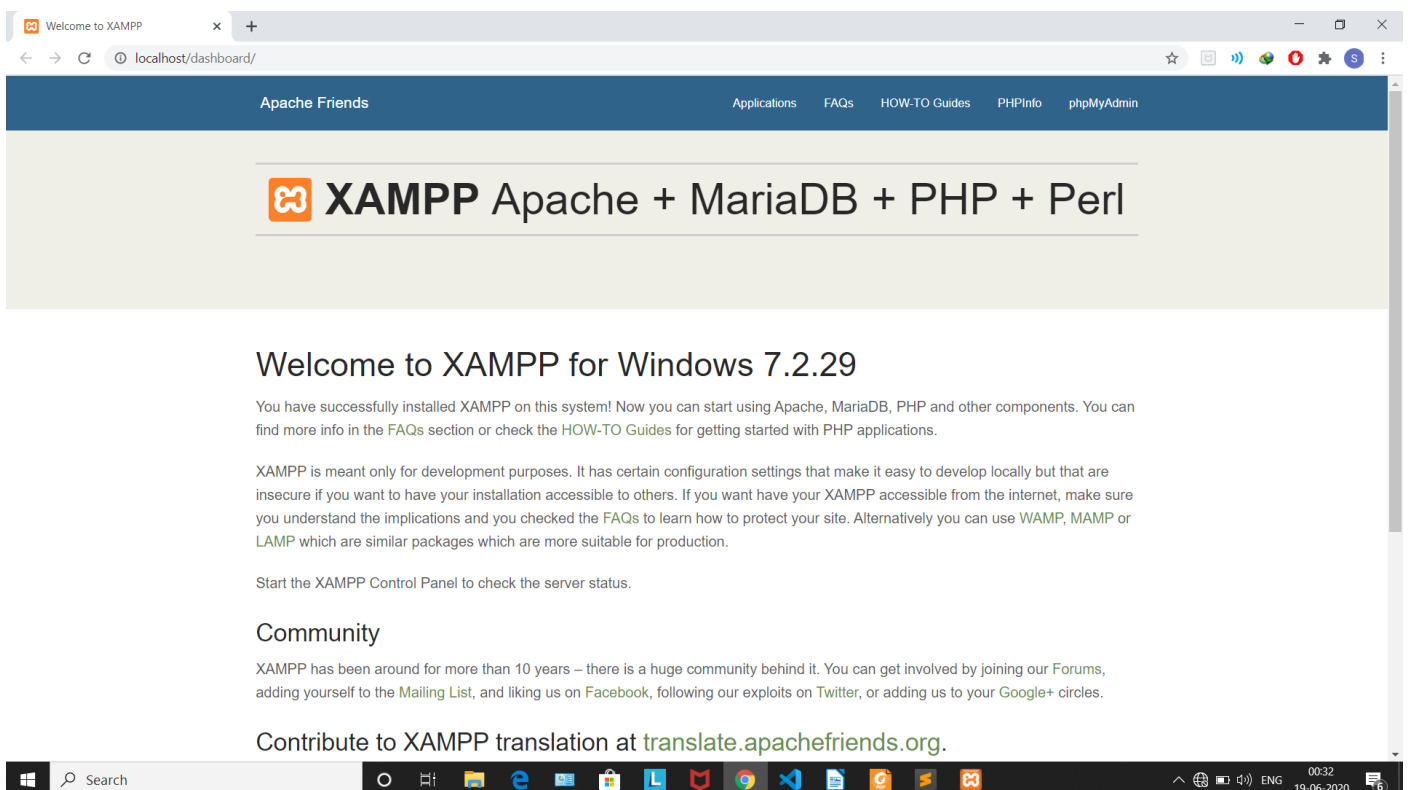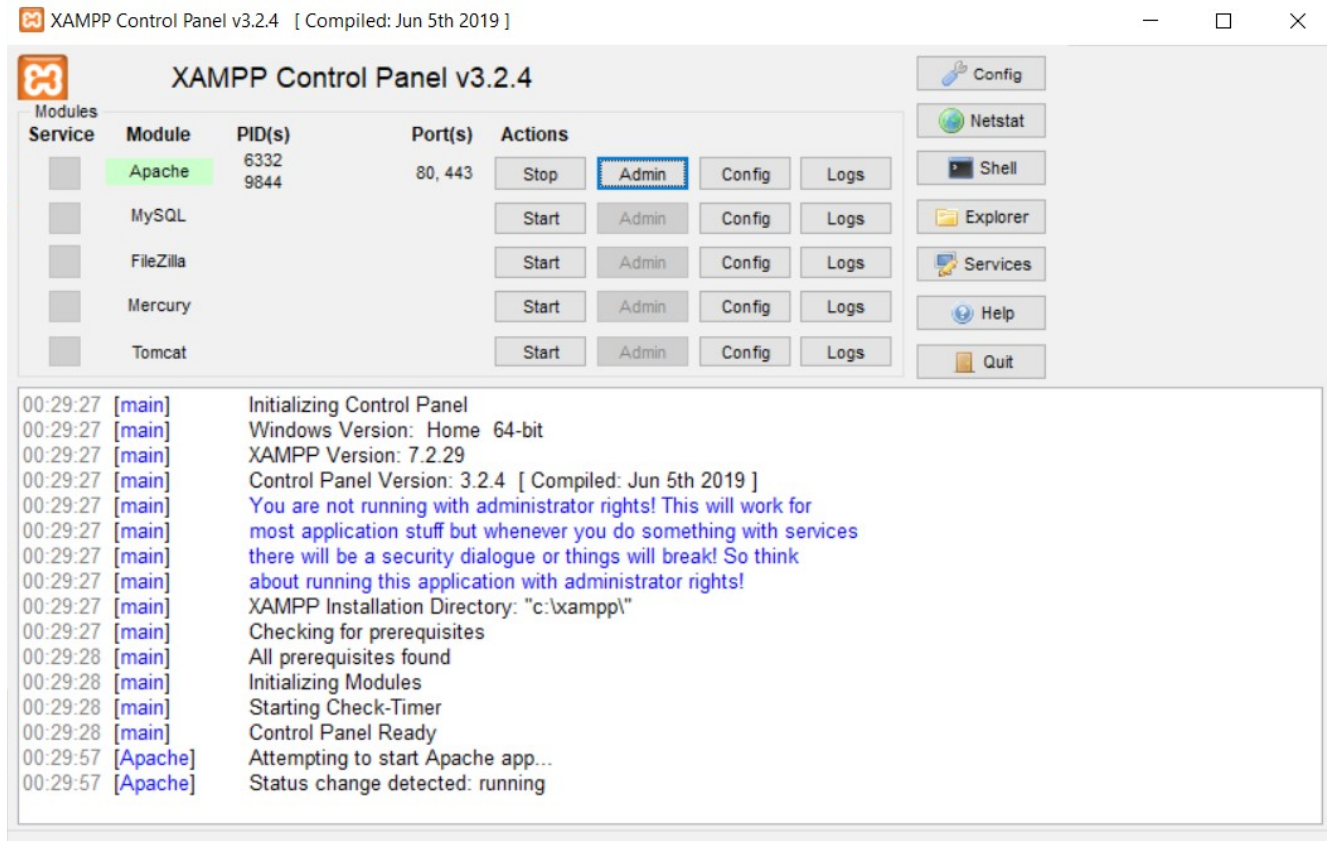
Problem 5

Understanding PHP

```php
<!DOCTYPE html>
<html>
<head></head>
<body>
<h1>First 20 Prime Numbers</h1>
<?php
    function prime($n)
    {
        for ($i = 2; $i <= $n/2; $i++)
            if ($n % $i == 0)
                return 0;
        return 1;
    }
$c = 1;
for($i = 2;$c <= 20; $i++)
if (prime($i) == 1)
{
    echo "$i,";
    $c=$c+1;
}
?>
</body>
</html>
```

Output:

localhost/Nobita's Prime/prime.p ✕   +

← → C ⓘ localhost/Nobita's%20Prime/prime.php
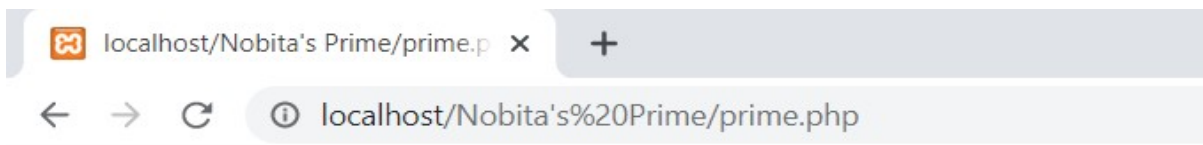
First 20 Prime Numbers

2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,

Problem 6

Understanding Javascript

```html
<!DOCTYPE html>
<html>
<head>
    <title>Square</title>
</head>
<body>
<script>
    function square()
    {
        return (x*x);
    }
    document.write("<h1>Square of numbers from 1 to 25</h1>");
    for (var x=1;x<=25;x++)
    { document.write("The square of " + x+" is "+square(x)+"<br>");
    }
</script>
</body>
</html>
```

Output:

Square   ×   +

← → C   ⓘ File | C:/Users/Nobita/Desktop/AP%20Lab%20File/6.Understanding%20JS/Square.html

▦ Apps   M Gmail   ▶ YouTube   🗺 Maps   ◢ MATLAB Online R2...   📊 Make Codeforces n...

Square of numbers from 1 to 25

The square of 1 is 1
The square of 2 is 4
The square of 3 is 9
The square of 4 is 16
The square of 5 is 25
The square of 6 is 36
The square of 7 is 49
The square of 8 is 64
The square of 9 is 81
The square of 10 is 100
The square of 11 is 121
The square of 12 is 144
The square of 13 is 169
The square of 14 is 196
The square of 15 is 225
The square of 16 is 256
The square of 17 is 289
The square of 18 is 324
The square of 19 is 361
The square of 20 is 400
The square of 21 is 441
The square of 22 is 484
The square of 23 is 529
The square of 24 is 576
The square of 25 is 625

Problem 8

Creating a Web page with back end in PHP and front end in JavaScript

Html file

```html
<html>
<head>
<title>Registration Form</title>
<link rel="stylesheet" href="form.css">
<script type="text/javascript" src="form.js">
</script>
</head>
<body>
    <div class="bc">
      <table width="100%">
        <th class="bc"><h1>Registration Form</h1></th>
        <th><img src="lgo.jpg" height="70%" ></th>
      </table>
        </div>
<form method="POST" action="http://localhost/AP/form.php" name="regform" onsubmit="return validate()">
<fieldset>
<div class="abc">
   <table width="100%">
<th><label width="50%">Username:</label></th>
<input type="text" placeholder="Enter your username here" name="username" ></th>
<th><label>Password:</label></th>
<input type="password" placeholder="Enter your password here"  name="password" id="a1"></th>
   </table>
   <br>
</div>
</fieldset>
<hr>
<fieldset>
   <legend><b>Personal details<b></legend>
   <table width="100%">
<th><label>First Name:</label></th>
<input type="text"  placeholder="Type your first name here" id="a2"></th>
<th><label>Last Name:</label></th>
   <input type="text" placeholder="Type your last name here" >
   </th>
   </table>
   <label class="abcd">Gender</label>
   <input type="radio" name="ab" value="male">Male
 <input type="radio" name="ab"  value="female">Female
 <input type="radio" name="ab"  value="others">Others
 <br>
</fieldset>
<hr>
<fieldset>
   <legend><b>Contact Info</b></legend>
   <table width="100%">
     <th><label>E-mail:</label></th>
        <input type="email" id="a3"  placeholder="Enter your e-mail here"></th>
        <th><label>Mobile No:</label></th>
        <input type="text" id="a4"  placeholder="Enter your mobile number"></th>
    </table>
    <br>
    <fieldset>
      <legend><b>Address</b></legend>
      <table width="100%">
      <th><label>Permanent Address:</label></th>
      <br>
<textarea name="name" rows="5" cols="40" id="a5"  placeholder="Type your permanent address here"></textarea></th>
      <th><label>Correspondence Address:</label></th>
      <br>
      <textarea name="name" rows="5" cols="40" placeholder="Type your correspondence address here"></textarea></th>
      </table>
      </fieldset>
</fieldset>
<table width="100%">
<th><input type="submit"  value="Submit" name="submit"></th>
<th><input type="reset"   value="Clear"></th>
</table>
</form>
</body>
</html>
```
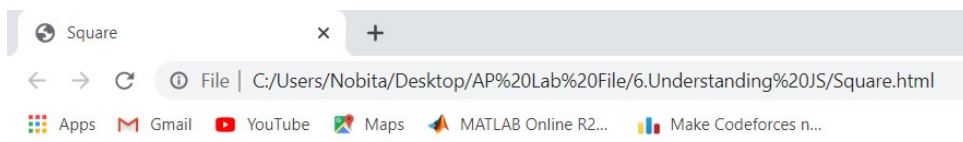
Php file

```php
<?php

if(isset($_POST['submit']))
{$usrnm=$_POST['username'];
$pss=$_POST['password'];
  if((strlen($usrnm)<=5) or (strlen($pss)<=8) )
  {
    echo "Username must be 5 characters long and Password must be 8 characters long";
  }
}
?>
<html>
<head>
<title>Registration Form</title>
<link rel="stylesheet" href="form.css">
<script type="text/javascript" src="form.js">
</script>
</head>
<body>
  <div class="bc">
    <table width="100%">
      <th class="bc"><h1>Registration Form</h1></th>
      <th><img src="lgo.jpg" height="70%" ></th>
    </table>
      </div>
<form method="POST" action=" " name="regform" onsubmit="return validate()">
<fieldset>
<div class="abc">
  <table width="100%">
<th><label width="50%">Username:</label>
<input type="text" placeholder="Enter your username here" name="username" ></th>
<th><label>Password:</label>
<input type="password" placeholder="Enter your password here"  name="password" id="a1"></th>
  </table>
  <br>
</div>
</fieldset>
<hr>
<fieldset>
  <legend><b>Personal details<b></legend>
  <table width="100%">
<th><label>First Name:</label>
<input type="text"  placeholder="Type your first name here" id="a2"></th>
 <th><label>Last Name:</label>
  <input type="text" placeholder="Type your last name here" >
  </th>
  </table>
  <label class="abcd">Gender</label>
  <input type="radio" name="ab" value="male">Male
  <input type="radio" name="ab"  value="female">Female
  <input type="radio" name="ab"  value="others">Others
  <br>
</fieldset>
<hr>
<fieldset>
  <legend><b>Contact Info</b></legend>
  <table width="100%">
    <th><label>E-mail:</label>
      <input type="email" id="a3"  placeholder="Enter your e-mail here"></th>
    <th><label>Mobile No:</label>
    <input type="text" id="a4"  placeholder="Enter your mobile number"></th>
  </table>
   <br>
  <fieldset>
    <legend><b>Address</b></legend>
    <table width="100%">
    <th><label>Permanent Address:</label>
    <br>
<textarea name="name" rows="5" cols="40" id="a5"  placeholder="Type your permanent address here"></textarea></th>
    <th><label>Correspondence Address:</label>
    <br>
    <textarea name="name" rows="5" cols="40" placeholder="Type your correspondence address here"></textarea></th>
    </table>
    </fieldset>
```

```html
</fieldset>
<table width="100%">
<th><input type="submit" value="Submit" name="submit"></th>
<th><input type="reset"  value="Clear"></th>
</table>
</form>
</body>
</html>
```

CSS File

```css
body{box-sizing: border-box;
  border: 3px solid green;
border-radius: 2px;
background-color: aqua}
legend{color: SlatebLUE;}
.abc{text-align: center;
margin: auto;}
input[type=text],input[type=Password],input[type=email],textarea{background-color: lightgrey;}
input[type=radio]{margin-left:70px; }
.abcd{margin-left: 200px;}
input[type=submit],input[type=reset]{background-color: mediumseagreen;;
                width:40%;
            height: 30px;}
.bc{ text-align: center;
background-color: tomato;}
```

Javascript File

```javascript
function validate()
{ var b= document.getElementById('a2').value;
 var c= document.getElementsByName('ab').value;
 var d=document.getElementById('a3').value;
 var e= document.getElementById('a4').value;
 var f=document.getElementById('a5').value;
if(b==" " || b==0)
{
  alert("Please Enter First Name");
  return false;
}
if(c==" " || c==0)
{ alert("Please Select Gender");
return false;}
if(d==" " || d==0)
{ alert("Please Enter a Valid E-mail");
return false;}
if(d==" " || d==0 || d.length<10)
{ alert("Please Enter a Valid Number");
return false;}
if(c==" ")
{ alert("Please Enter a valid address");
return false;}
}
```

Output:

Registration Form

Coderzz
Life with programming

Username: `Enter your username here`   Password: `Enter your password here`

Personal details

First Name: `Type your first name here`   Last Name: `Type your last name here`

Gender   ○ Male   ○ Female   ○ Others

Contact Info

E-mail: `Enter your e-mail here`   Mobile No: `Enter your mobile number`

Address

Permanent Address: Correspondence Address:

`Type your permanent address here`   `Type your correspondence address here`

Submit   Clear