



APPLICATION PROGRAMMING PRACTICE FILE

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, SONEPAT



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Write a program for creating HTML Form

HTML Code :

```
<!DOCTYPE
html>

<html lang="en">
<meta charset="utf-8">
  <head>
    <title>HTML Forms</title>
    <link rel="stylesheet" type="text/css" href="style.css">
  </head>
  <body>
    <div class="a">
      <h1>Student Form</h1>
      
    </div>
    <div class="abc">
      <form class="" action="Submit.html" method="post">
        <div class="ab">
          <table width="100%">
            <tr>
              <td>Name:</td>
              <td><input type="text" placeholder="Enter Your Name Here"
required></td>
            </tr>
            <tr>
              <td>Roll No:</td>
              <td><input type="text" placeholder="Enter Your Roll No
here" required></td>
            </tr>
            <tr>
              <td>Mobile No:</td>
              <td><input type="tel" placeholder="Enter Your Number Here"
pattern="[789][0-9]{9}" required></td>
            </tr>
            <tr>
              <td>E-mail:</td>
              <td><input type="email" placeholder="Enter Your E-mail Here"
required></td>
            </tr>
            <tr>
              <td>College:</td>
              <td><input type="text" placeholder="Enter Your College
```

```

Name"></td>

</table><br><br><br>
<table width="100%">
    <tr>
        <td><input type="submit" value="Submit"></td>
        <td><input type="reset" value="Clear"></td>
    </tr>
</table>
</div>
</form>
</div>
</body>
</html>

```

CSS CODE :

```

body{
background-
color :
white;

}
.abc{ margin :0px 300px 200px 300px ;
}
.ab{ margin : auto;
background-color: grey;
}
input[type=text],input[type=email]{ width : 90%;

}

.a{ padding : 20px;
text-align :center;
}

```

HTML SUBMIT CODE :

```

<!DOCTYPE
html>

<html lang="en">
<meta charset="utf-8">
    <head>
        <title>Successful Submission</title>
    </head>
    <body>
        <h1>You have succesfully submitted the form!!</h1>
        <button onclick="document.location = 'form.html'">click here to submit another form</button>
    </body>
</html>

```


OUTPUT :

The Python Tutorial — Python 3.8.3 DocumentationHTML Forms

File | F:/Ravi/online/ap/assign/form/form.html

Free GamesSmart HomepageNew TabGoogle ScholarGoogle AccountsInternships | Summ...Chalo India, Let's W...3 phyto.pdf3 2013Chemospher...

Student Form



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SONEPAT

भारतीय सूचना प्रौद्योगिकी संस्थान, सोनीपत

(An Institute of National Importance under an Act of Parliament)

Name:

Enter Your Name Here

Roll No:

Enter Your Roll No here

Mobile No:

Enter Your Number Here

E-mail:

Enter Your E-mail Here

College:

Enter Your College Name

Submit

Clear



Write a program for creating Homepage using HTML

HTML Code :

```
<!DOCTYPE
html>

<html>
<meta charset="UTF-8">
<head>
<title> homepage </title>
<link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
<div>

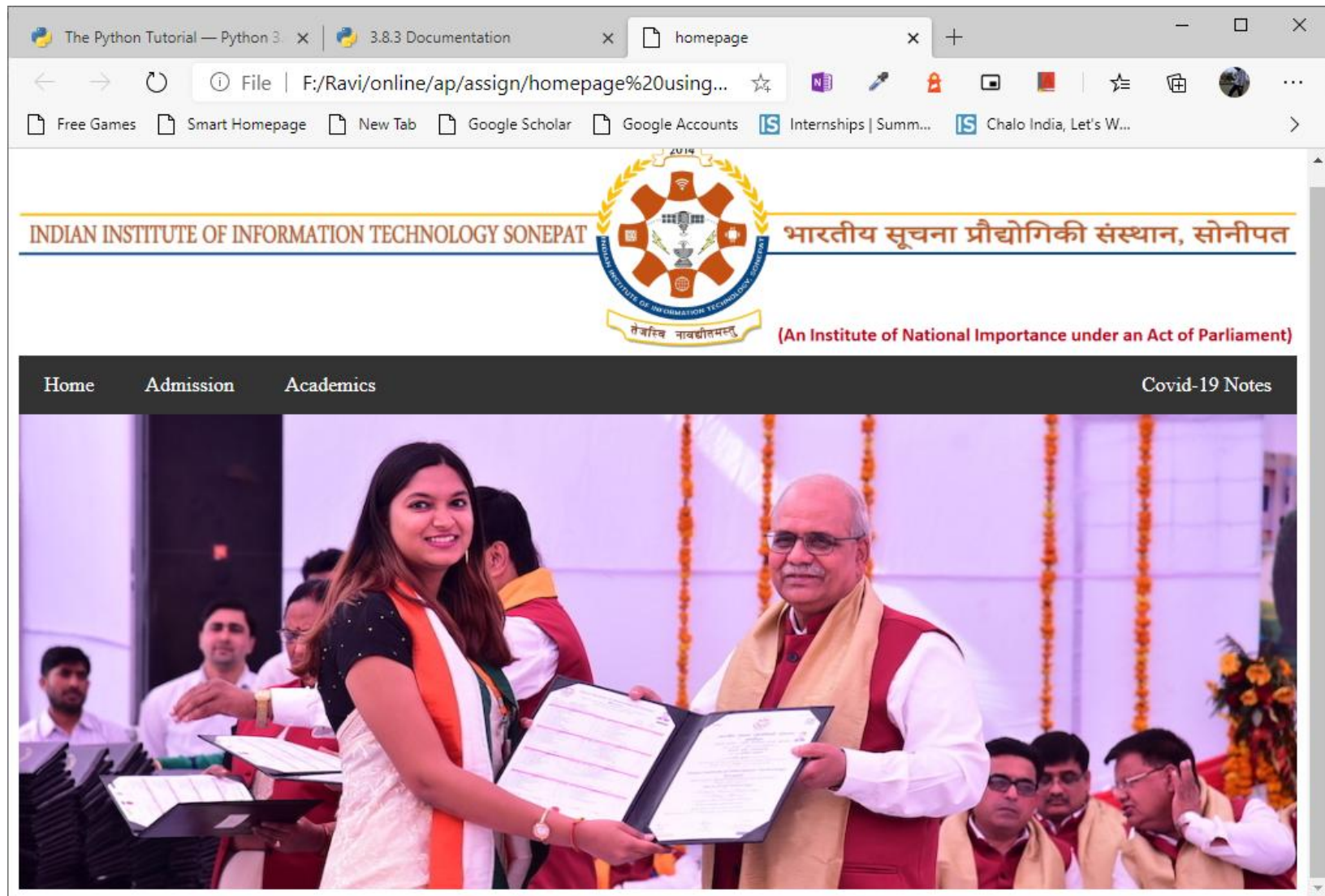
</div>
<div class="navbar">
    <a href="#">Home</a>
    <a href="#">Admission</a>
    <a href="#">Academics</a>
    <a href="#" class="right">Covid-19 Notes</a>
</div>
<section>
    
    
    
</section>
<script>
var myIndex = 0;
carousel();
function carousel() {
    var i;
    var x = document.getElementsByClassName("mySlides");
    for (i = 0; i < x.length; i++) {
        x[i].style.display = "none";
    }
    myIndex++;
    if (myIndex > x.length) {myIndex = 1}
    x[myIndex-1].style.display = "block";
    setTimeout(carousel, 3000);
}
</script>
```

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

CSS CODE :

```
.navbar  
{  
    overflow: hidden;  
    background-color: #333;  
}  
.navbar a {  
    float: left;  
    display: block;  
    color: white;  
    text-align: center;  
    padding: 14px 20px;  
    text-decoration: none;  
}  
.navbar a.right {  
    float: right;  
}  
.navbar a:hover {  
    background-color: #ddd;  
    color: black;  
}
```

OUTPUT :



Write a program to understand XHTML and CSS

HTML CODE :

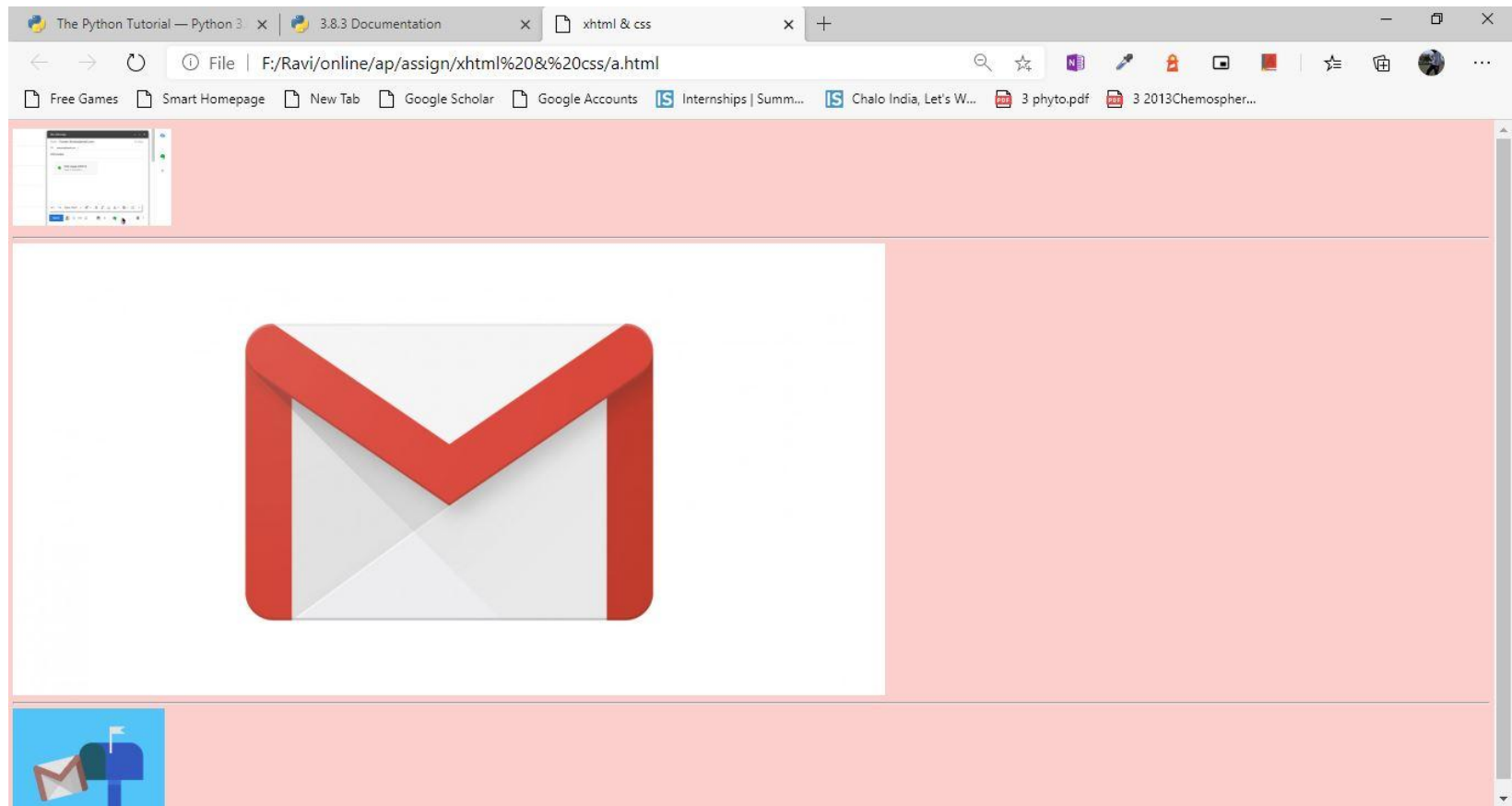
```
<!DOCTYPE
html
PUBLIC "-//
//W3C//DTD
XHTML
1.1//EN"

"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title>xhtml & css</title>
  <link rel="stylesheet" type="text/css" href="a.css"/>
</head>
<body>
  <p>
    <a href="mailto:abc@gmail.com"></a>
    <br/>
    <hr/>
    
    <br/>
    <hr/>
    <a href="mailto:abc@gmail.com"></a>
  </p>
</body>
</html>
```

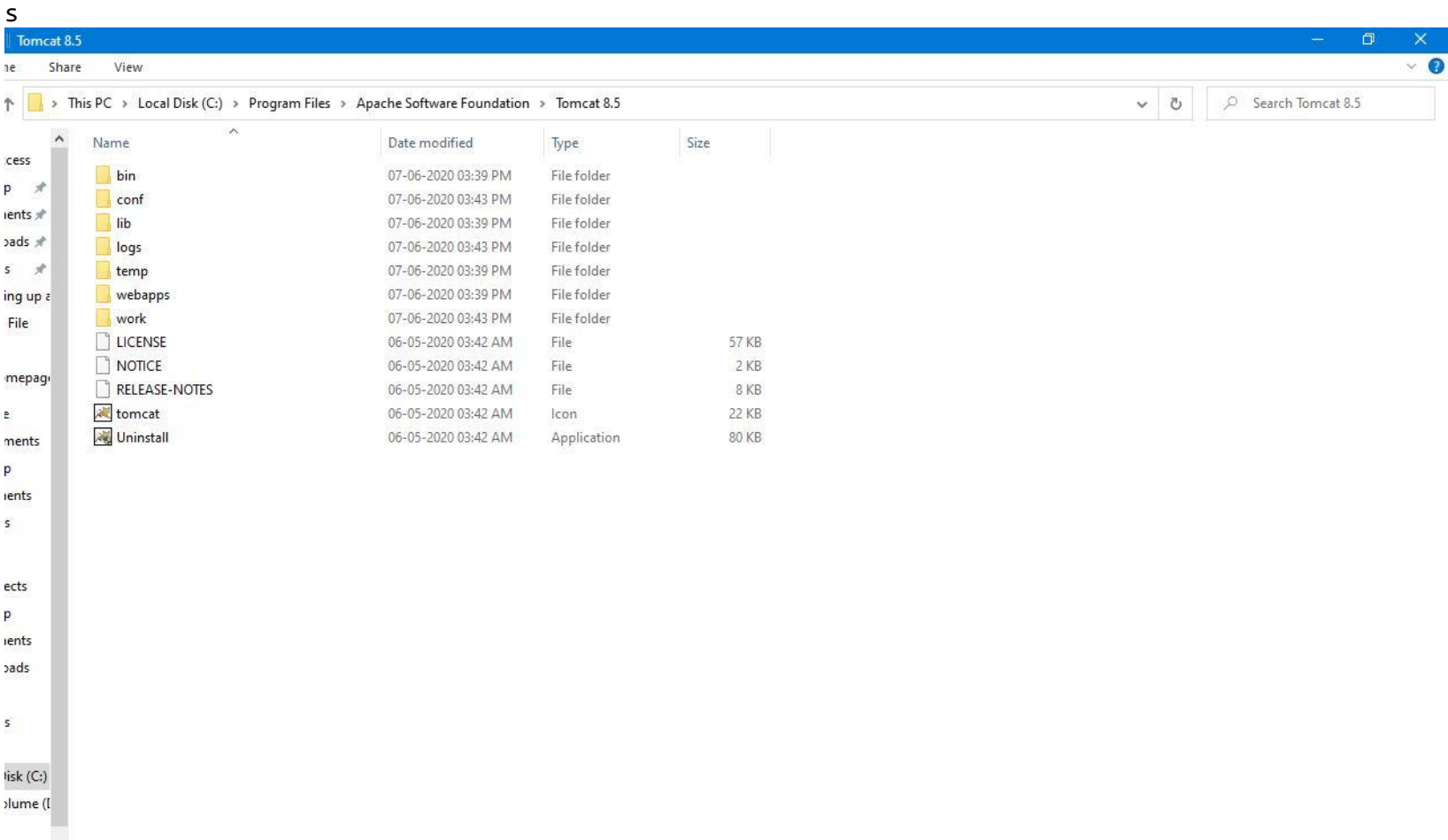
CSS CODE :

```
body{background-color:#fccfcc}
```

OUTPUT:



Setting up and configuration of apache Tomcat server




Apache Tomcat/8.5.55

localhost:9999


AppsGmailYouTubeJavaScript TutorialDSSSB Exam Coachi...Python TutorialC++ Programming...Python Programmi...How to install a mis...

HomeDocumentationConfigurationExamplesWikiMailing ListsFind Help

Apache Tomcat/8.5.55



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations How-To](#)

[Manager Application How-To](#)

[Clustering/Session Replication How-To](#)

Server Status

Manager App

Host Manager

Developer Quick Start

[Tomcat Setup](#)

[First Web Application](#)

[Realms & AAA](#)

[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)

[Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:
`$CATALINA_HOME/conf/tomcat-users.xml`
In Tomcat 8.5 access to the manager application is split between different users.
[Read more...](#)

[Release Notes](#)

[Changelog](#)

[Migration Guide](#)

Documentation

[Tomcat 8.5 Documentation](#)

[Tomcat 8.5 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:
`$CATALINA_HOME/RUNNING.txt`
Developers may be interested in:
[Tomcat 8.5 Bug Database](#)
[Tomcat 8.5 JavaDocs](#)

Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)
User support and discussion

[taglibs-user](#)
User support and discussion for [Apache Taglibs](#)

[tomcat-dev](#)
Development mailing list, including commit

localhost:9999/docs/c

Administrator: Command Prompt

Tomcat

```
C:\Program Files\Apache Software Foundation\Tomcat 8.5\bin>startup.bat
Using CATALINA_BASE: "C:\Program Files\Apache Software Foundation\Tomcat 8.5"
Using CATALINA_HOME: "C:\Program Files\Apache Software Foundation\Tomcat 8.5"
Using CATALINA_TMPDIR: "C:\Program Files\Apache Software Foundation\Tomcat 8.5\temp"
Using JRE_HOME: "C:\Program Files\Java\jdk-13.0.2"
Using CLASSPATH: "C:\Program Files\Apache Software Foundation\Tomcat 8.5\bin\bootstrap.jar;C:\Program Files\Apache Software Foundation\Tomcat 8.5\bin\tomcat-juli.jar"
C:\Program Files\Apache Software Foundation\Tomcat 8.5\bin>

[main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-9999"]
07-Jun-2020 16:52:26.054 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in 2076 ms
```



Write a program for Creating Website using PHP

HTML code:

```
<!DOCTYPE
html>

<html>
<meta charset="UTF-8">
<head>
<title> homepage </title>
<link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
<div>

    
</div>
<div class="navbar">
    <a href="1.php">Home</a>
    <a href="#">Admission</a>
    <a href="#">Academics</a>
    <a href="#" class="right">Covid-19 Notes</a>
</div>
<section>
    
    
    
</section>
<script>
var myIndex = 0;
carousel();
function carousel() {
    var i;
    var x = document.getElementsByClassName("mySlides");
    for (i = 0; i < x.length; i++) {
        x[i].style.display = "none";
    }
    myIndex++;
    if (myIndex > x.length) {myIndex = 1}
    x[myIndex-1].style.display = "block";
    setTimeout(carousel, 3000);
}
</script>
</body>
```

```
</html>
```

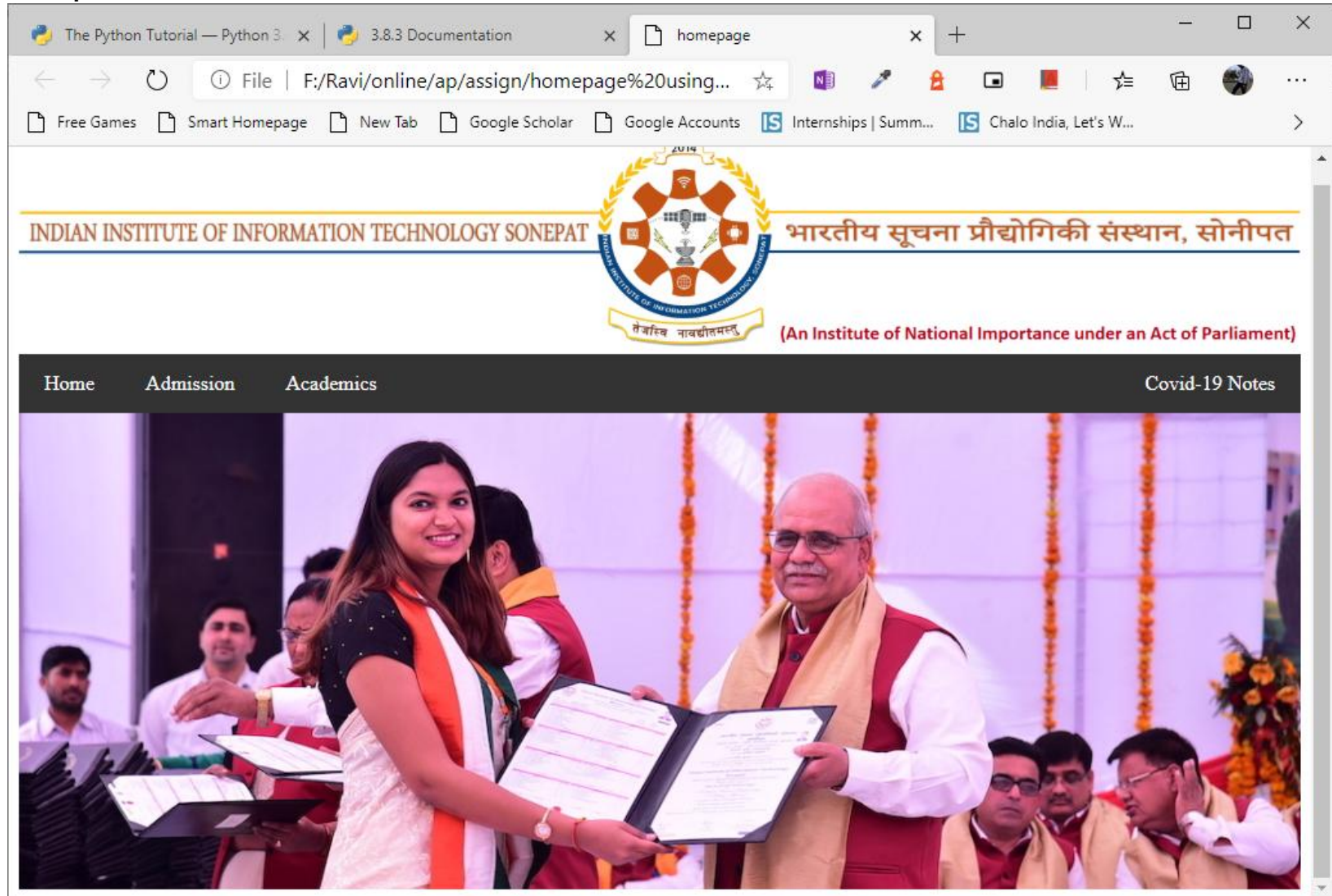
CSS CODE:

```
.navbar
{
    overflow: hidden;
    background-color: #333;
}
.navbar a {
    float: left;
    display: block;
    color: white;
    text-align: center;
    padding: 14px 20px;
    text-decoration: none;
}
.navbar a.right {
    float: right;
}
.navbar a:hover {
    background-color: #ddd;
    color: black;
}
```

PHP CODE:

```
<?php echo file_get_contents("a.html");?>
```


Output:





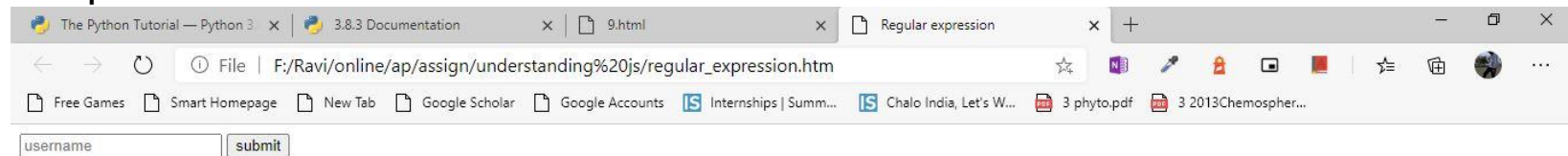
7 Write a program to understand the JavaScript

HTML CODE:

```
<!DOCTYPE
html>

<html lang="en">
  <head>
    <title>Regular expression</title>
    <script>
      function validate()
      {
        var username=document.getElementById("uname").value;
        var regx=/ABC/;
        if(regx.test(username))
        {
          alert("valid username");
        }
        else{
          alert("invalid username");
        }
      }
    </script>
  </head>
  <body>
    <form action="message.html">
      <input id="uname" placeholder="username" type="text"/>
      <button onclick="validate()" type="button" >submit</button>
    </form>
  </body>
</html>
```


Output:



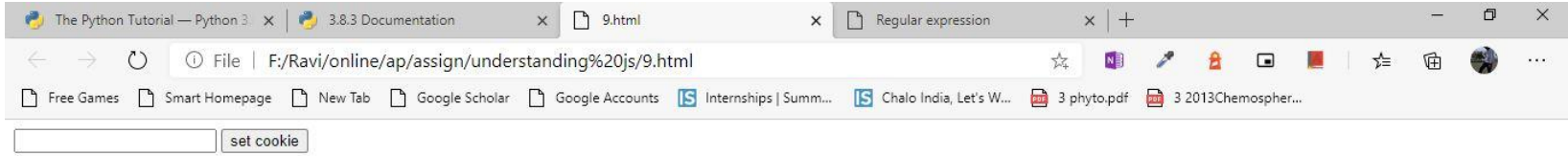
HTML CODE:

```
<!DOCTYPE
html>

    <html lang="en">
        <head>
            <script>
                function create()
                {
                    if(document.myform.username.value=="")
                    {
                        alert("enter some value");
                        return;
                    }
                    var cookievalue=escape(document.myform.username.value);
                    document.cookie="name="+ cookievalue;
                    document.write("setting cookie :"+"name=" + cookievalue)'
                }
            </script>
        </head>
        <body>
            <form name="myform">
                <input type="text" name="username"/>
                <input type="button" value="set cookie" onclick="create();"/>
            </form>
        </body>
```

</html>

Output:



Create web application which has front-end in JS and back-end in PHP which runs from apache local server

Html code:

```
<?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="style.css">
<script type="text/javascript" src="js.js">
</script>
</head>
<body>
    <div class="a">
        <table width="100%">
            <th class="a"><h1>Registration Form</h1></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" required></th>
    <th><label>Mobile No:</label>
      <input type="tel" id="a4" placeholder="Enter your mobile number" pattern="[789][0-9]{9}" required></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>
</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 CODE:

```

body{box-
sizing:
border-
box;

  border: 3px solid green;
  border-radius: 2px;
  background-color: SlateBLUE}
legend{color: aqua;}
.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: ;;
        width:40%;
        height: 30px;}
.a{ text-align: center;
background-color: grey;}

```

Javascript code:

```

function
validate()
{
    var a= document.getElementById('a1').value;
    var b=document.getElementById('a2').value;
    var c= document.getElementById('a3').value;
    var d=document.getElementById('a4').value;
    var e=document.getElementById('a5').value;
    var f=document.getElementById('ab').value;
    if(a==" " || a==0)
    {
        alert("Please Enter Password");
        return false;
    }
    if(b==" " || b==0)
    {
        alert("Please Enter First Name");
        return false;
    }
    if(c==" " || c==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(e==" ")
    { alert("Please Enter a valid address");
return false;}
    }
    if(f==" ")
    { alert("Please Enter a valid gender");
return false;}
    }
}

```

PHP CODE :

```

<?php
if(isset($_POST['submit']))
{ $usnm=$_POST['username'];
  $pss=$_POST['password'];
    if((strlen($usnm)<=5) or (strlen($pss)<=8) )
    {

```

```
}
    echo "Username must be 5 characters long and Password must be 8 characters long";
}
?>
```

Output:

The screenshot shows a web browser window with the following details:

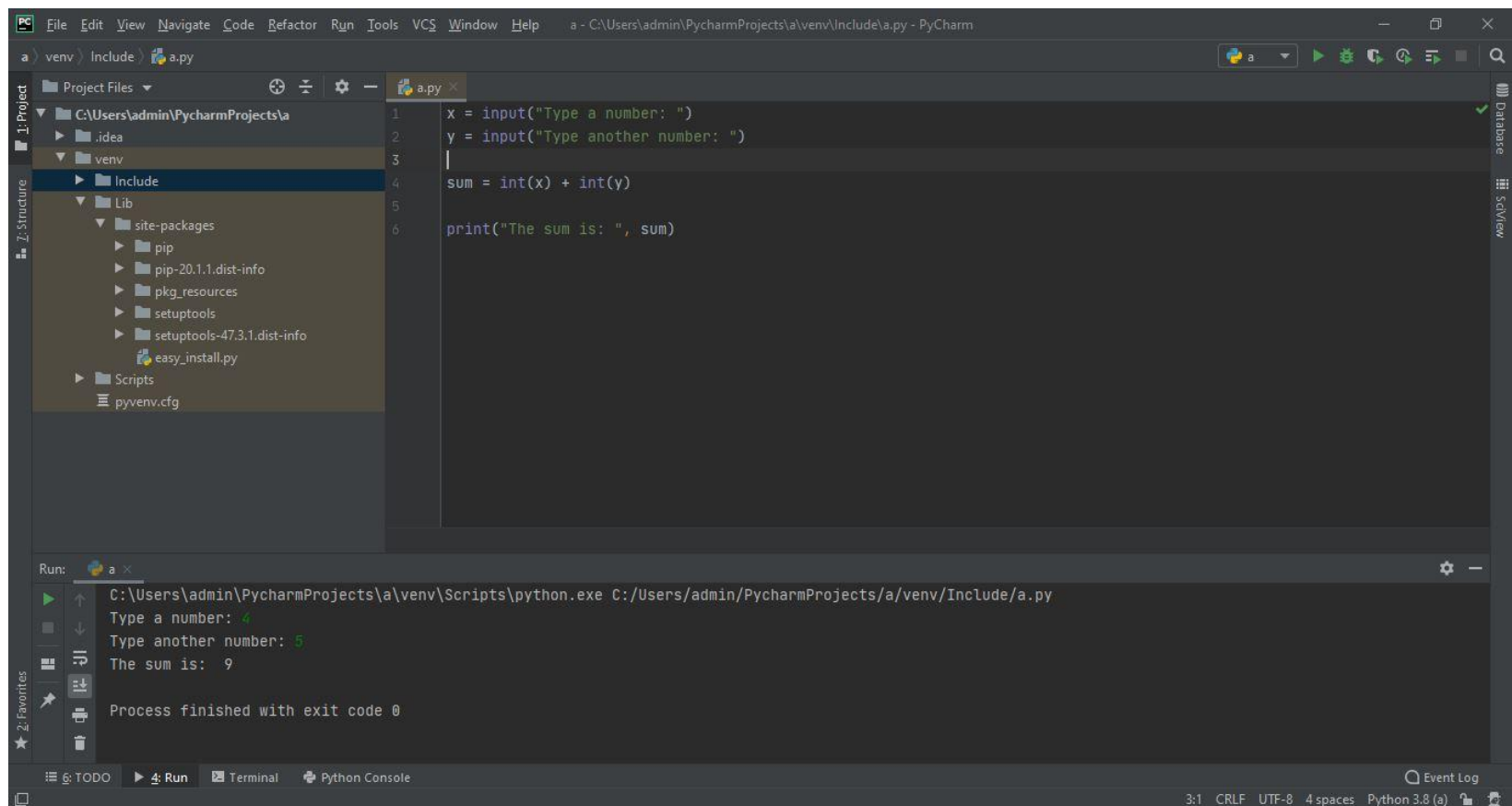
- Browser Tabs:** The Python Tutorial — Python 3, 3.8.3 Documentation, and Registration Form.
- Address Bar:** File | F:/Ravi/online/ap/assign/js&php/form.html
- Form Title:** Registration Form
- Form Fields:**
 - Username:** Enter your username here
 - Password:** Enter your password here
 - Personal 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:** Type your permanent address here
 - Correspondence Address:** Type your correspondence address here
- Buttons:** Submit and Clear

9 Writing and understanding program in python

CODE:

```
x =  
input("Type  
a number:  
")  
  
y = input("Type another number: ")  
sum = int(x) + int(y)  
print("The sum is: ", sum)
```

OUTPUT:



The screenshot shows the PyCharm IDE interface. The main editor window displays the Python code for calculating the sum of two numbers. The left sidebar shows the project structure, including the 'venv' directory and its subdirectories. The bottom panel shows the 'Run' output, which displays the execution of the program with user input and the resulting sum.

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help a - C:\Users\admin\PycharmProjects\a\venv\Include\python.exe - PyCharm  
a venv Include a.py  
Project Files  
C:\Users\admin\PycharmProjects\a  
  .idea  
  venv  
    include  
    Lib  
      site-packages  
      pip  
      pip-20.1.1.dist-info  
      pkg_resources  
      setuptools  
      setuptools-47.3.1.dist-info  
      easy_install.py  
    Scripts  
    pyvenv.cfg  
1 x = input("Type a number: ")  
2 y = input("Type another number: ")  
3 |  
4 sum = int(x) + int(y)  
5  
6 print("The sum is: ", sum)  
Run: a x  
C:\Users\admin\PycharmProjects\a\venv\Scripts\python.exe C:/Users/admin/PycharmProjects/a/venv/Include/a.py  
Type a number: 4  
Type another number: 5  
The sum is: 9  
Process finished with exit code 0  
3:1 CRLF UTF-8 4 spaces Python 3.8 (a)
```

Using python libraries to do scientific calculations

CODE:

```
import
math

x = math.sqrt(64)
print(x)
y = pow(4, 3)
print(y)
```

OUTPUT:

