



# **Indian Institute of Information Technology Sonapat**

## **AP PRACTICAL FILE**

**Submitted To-  
Md Arquam Sir**

**NAME : AMAN KANT  
ROLL NO. : 11912054  
BRANCH : IT**

# INDEX

SR. NO.	PROGRAM NAME
1.	Write a program for creating HTML Form
2.	Write a program for creating Homepage using HTML
3.	Write a program to understand XHTML and CSS
4.	Setting up and configuration of apache Tomcat server
5.	Understanding modification of Web.XML(in separate file)
6.	Write a program for Creating Website using PHP
7.	Write a program to understand the JavaScript
8.	Create web application which has front-end in JS and back-end in PHP which runs from apache local server
9.	Writing and understanding program in python
10.	Using python libraries to do scientific calculations

# Write a program for creating HTML Form

HTML Code :

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <meta charset="utf-8">
4  <head>
5  <title>HTML Forms</title>
6  <link rel="stylesheet" type="text/css" href="style.css">
7  </head>
8  <body>
9  <div class="a">
10 <h1>Student Form</h1>
11 
12 </div>
13 <div class="abc">
14 <form class="" action="Submit.html" method="post">
15 <div class="ab">
16 <table width="100%">
17 <tr>
18 <td>Name:</td>
19 <td><input type="text" placeholder="Enter Your Name Here" required></td>
20 </tr>
21 <tr>
22 <td>Roll No:</td>
23 <td><input type="text" placeholder="Enter Your Roll No here" required></td>
24 </tr>
25 <tr>
26 <td>Mobile No:</td>
27 <td><input type="tel" placeholder="Enter Your Number Here" pattern="[789][0-9]{9}" required></td>
28 </tr>
29 <tr>
30 <td>E-mail:</td>
31 <td><input type="email" placeholder="Enter Your E-mail Here" required></td>
32 </tr>
33 <td>College:</td>
34 <td><input type="text" placeholder="Enter Your College Name"></td>
35 </table><br><br><br>
36 <table width="100%">
37 <tr>
38 <td><input type="submit" value="Submit"></td>
39 <td><input type="reset" value="Clear"></td>
40 </tr>
41 </table>
42 </div>
43 </form>
44 </div>
45
46 </body>
47 </html>
48
```

## CSS CODE :

```
1 body{ background-color : white;
2     }
3 .abc{ margin :0px 300px 200px 300px ;
4     }
5 .ab{ margin : auto;
6     background-color: grey;
7     }
8 input[type=text],input[type=email]{ width : 90%;
9     }
10 .a{ padding : 20px;
11     text-align :center;
12
13     }
14
```

## HTML SUBMIT CODE :

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <meta charset="utf-8">
4     <head>
5         <title>Successful Submission</title>
6     </head>
7     <body>
8         <h1>You have succesfully submitted the form!!</h1>
9         <button onclick="document.location = 'form.html'">click here to submit another form</button>
10    </body>
11 </html>
12
```

OUTPUT :

Student Form

Name:	<input type="text" value="Enter Your Name Here"/>
Roll No:	<input type="text" value="Enter Your Roll No here"/>
Mobile No:	<input type="text" value="Enter Your Number Here"/>
E-mail:	<input type="text" value="Enter Your E-mail Here"/>
College:	<input type="text" value="Enter Your College Name"/>
<div>SubmitClear</div>	

# Write a program for creating Homepage using HTML

HTML Code :

```
1  <!DOCTYPE html>
2  <html>
3  <meta charset="UTF-8">
4  <head>
5  <title> homepage </title>
6  <link rel="stylesheet" type="text/css" href="style.css">
7  </head>
8  <body>
9
10 <div>
11   
12 </div>
13
14 <div class="navbar">
15   <a href="#">Home</a>
16   <a href="#">Admission</a>
17   <a href="#">Academics</a>
18   <a href="#" class="right">Covid-19 Notes</a>
19 </div>
20
21 <section>
22   
23   
24   
25 </section>
26
27 <script>
28
29 var myIndex = 0;
30 carousel();
31
32 function carousel() {
33   var i;
34   var x = document.getElementsByClassName("mySlides");
35   for (i = 0; i < x.length; i++) {
36     x[i].style.display = "none";
37   }
38   myIndex++;
39   if (myIndex > x.length) {myIndex = 1}
40   x[myIndex-1].style.display = "block";
41   setTimeout(carousel, 3000);
42 }
43 </script>
44
45 </body>
46 </html>
47
```



## CSS CODE :

```
1  .navbar {  
2    overflow: hidden;  
3    background-color: #333;  
4  }  
5  
6  .navbar a {  
7    float: left;  
8    display: block;  
9    color: white;  
10   text-align: center;  
11   padding: 14px 20px;  
12   text-decoration: none;  
13 }  
14  
15 .navbar a.right {  
16   float: right;  
17 }  
18  
19 .navbar a:hover {  
20   background-color: #ddd;  
21   color: black;  
22 }  
23
```

## OUTPUT :



# Write a program to understand XHTML and CSS

HTML CODE :

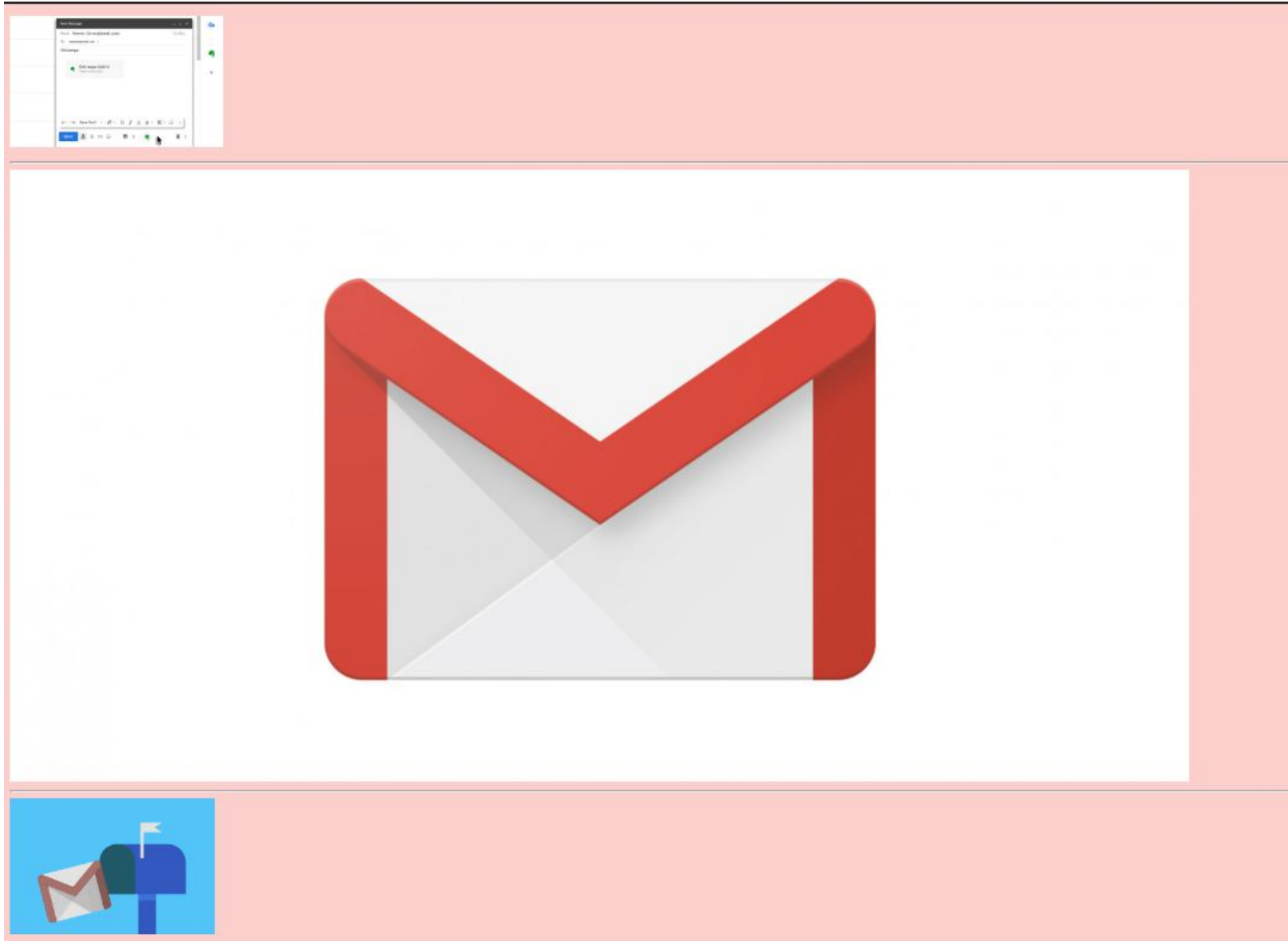
```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
2 "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5 <title>xhtml & css</title>
6 <link rel="stylesheet" type="text/css" href="a.css"/>
7 </head>
8 <body>
9
10 <p>
11
12 <a href="mailto:abc@gmail.com"></a>
13 <br/>
14 <hr/>
15 
16 <br/>
17 <hr/>
18 <a href="mailto:abc@gmail.com"></a>
19 </p>
20
21 </body>
22 </html>
23
```

CSS CODE :

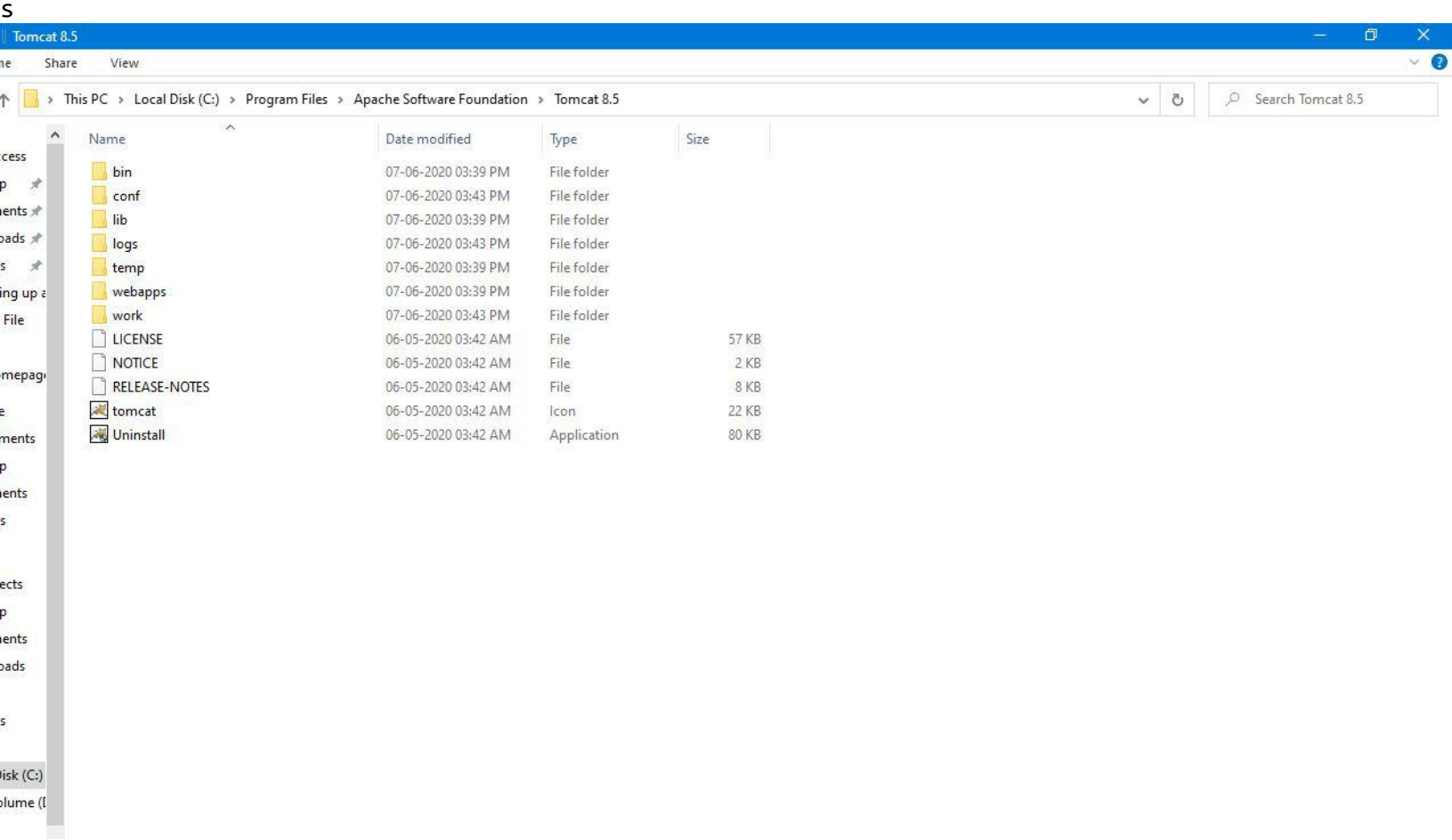
```
1
2 body{background-color:#fccfcc}
3
```



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>
```

```

tory [C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\exam
ples] has finished in [961] ms
07-Jun-2020 16:52:25.748 INFO [localhost-startStop-1] org.apache.catalin
a.startup.HostConfig.deployDirectory Deploying web application directory
[C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\host-ma
nager]
07-Jun-2020 16:52:25.836 INFO [localhost-startStop-1] org.apache.catalin
a.startup.HostConfig.deployDirectory Deployment of web application direc
tory [C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\hos
t-manager] has finished in [88] ms
07-Jun-2020 16:52:25.838 INFO [localhost-startStop-1] org.apache.catalin
a.startup.HostConfig.deployDirectory Deploying web application directory
[C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\manager
]
07-Jun-2020 16:52:25.948 INFO [localhost-startStop-1] org.apache.catalin
a.startup.HostConfig.deployDirectory Deployment of web application direc
tory [C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\man
ager] has finished in [110] ms
07-Jun-2020 16:52:25.951 INFO [localhost-startStop-1] org.apache.catalin
a.startup.HostConfig.deployDirectory Deploying web application directory
[C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\ROOT]
07-Jun-2020 16:52:26.028 INFO [localhost-startStop-1] org.apache.catalin
a.startup.HostConfig.deployDirectory Deployment of web application direc
tory [C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\ROO
T] has finished in [77] ms
07-Jun-2020 16:52:26.035 INFO [main] org.apache.coyote.AbstractProtocol
.start Starting ProtocolHandler ["http-nio-9999"]
07-Jun-2020 16:52:26.054 INFO [main] org.apache.catalina.startup.Catalin
a.start Server startup in 2076 ms
```

# Write a program for Creating Website using PHP

HTML code:

```
1  <!DOCTYPE html>
2  <html>
3  <meta charset="UTF-8">
4  <head>
5  <title> homepage </title>
6  <link rel="stylesheet" type="text/css" href="style.css">
7  </head>
8  <body>
9
10 <div>
11   
12 </div>
13
14 <div class="navbar">
15   <a href="1.php">Home</a>
16   <a href="#">Admission</a>
17   <a href="#">Academics</a>
18   <a href="#" class="right">Covid-19 Notes</a>
19 </div>
20
21 <section>
22   
23   
24   
25 </section>
26
27 <script>
28
29 var myIndex = 0;
30 carousel();
31
32 function carousel() {
33   var i;
34   var x = document.getElementsByClassName("mySlides");
35   for (i = 0; i < x.length; i++) {
36     x[i].style.display = "none";
37   }
38   myIndex++;
39   if (myIndex > x.length) {myIndex = 1}
40   x[myIndex-1].style.display = "block";
41   setTimeout(carousel, 3000);
42 }
43 </script>
44
45 </body>
46 </html>
47
```

## CSS CODE:

```
1  .navbar {  
2      overflow: hidden;  
3      background-color: #333;  
4  }  
5  
6  .navbar a {  
7      float: left;  
8      display: block;  
9      color: white;  
10     text-align: center;  
11     padding: 14px 20px;  
12     text-decoration: none;  
13 }  
14  
15 .navbar a.right {  
16     float: right;  
17 }  
18  
19 .navbar a:hover {  
20     background-color: #ddd;  
21     color: black;  
22 }  
23
```

## PHP CODE:

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



# Output:





# Write a program to understand the JavaScript

HTML CODE:

```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <title>Regular expression</title>
5      <script>
6        function validate()
7        {
8          var username=document.getElementById("uname").value;
9          var regx=/ABC/;
10         if(regx.test(username))
11         {
12           alert("valid username");
13         }
14         else{
15           alert("invalid username");
16         }
17       }
18     </script>
19   </head>
20   <body>
21     <form action="message.html">
22       <input id="uname" placeholder="username" type="text"/>
23       <button onclick="validate()" type="button" >submit</button>
24     </form>
25   </body>
26 </html>
```

Output:

## HTML CODE:

```
1  <!DOCTYPE html>
2  <html lang="en">
3      <head>
4          <script>
5              function create()
6              {
7                  if(document.myform.username.value=="")
8                  {
9                      alert("enter some value");
10                     return;
11                 }
12                 var cookievalue=escape(document.myform.username.value);
13                 document.cookie="name="+ cookievalue;
14                 document.write("setting cookie :"+"name=" + cookievalue)
15             }
16         </script>
17     </head>
18     <body>
19         <form name="myform">
20             <input type="text" name="username"/>
21             <input type="button" value="set cookie" onclick="create();"/>
22         </form>
23     </body>
24 </html>
```

## Output:



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

## Html code:

```
1  <?php
2
3  if(isset($_POST['submit']))
4  {
5      $usrnm=$_POST['username'];
6      $pss=$_POST['password'];
7      if((strlen($usrnm)<=5) or (strlen($pss)<=8) )
8      {
9          echo "Username must be 5 characters long and Password must be 8 characters long";
10     }
11 }
12 <?>
13 <html>
14 <head>
15 <title>Registration Form</title>
16 <link rel="stylesheet" href="style.css">
17 <script type="text/javascript" src="js.js">
18 </script>
19 </head>
20 <body>
21 <div class="a">
22 <table width="100%">
23 <tr>
24 <th class="a"><h1>Registration Form</h1></th>
25 </tr>
26 </table>
27 </div>
28 <form method="POST" action="" name="regform" onsubmit="return validate()">
29 <fieldset>
30 <div class="abc">
31 <table width="100%">
32 <tr>
33 <th><label width="50%">Username:</label>
34 <input type="text" placeholder="Enter your username here" name="username" ></th>
35 <th><label>Password:</label>
36 <input type="password" placeholder="Enter your password here" name="password" id="a1"></th>
37 </tr>
38 </table>
39 <br>
40 </div>
41 </fieldset>
42 <hr>
43 <fieldset>
44 <legend><b>Personal details</b></legend>
45 <table width="100%">
46 <tr>
47 <th><label>First Name:</label>
48 <input type="text" placeholder="Type your first name here" id="a2"></th>
49 <th><label>Last Name:</label>
50 <input type="text" placeholder="Type your last name here" >
51 </th>
52 </tr>
53 </table>
54 <label class="abcd">Gender</label>
55 <input type="radio" name="ab" value="male">Male
56 <input type="radio" name="ab" value="female">Female
57 <input type="radio" name="ab" value="others">Others
58 <br>
59 </fieldset>
60 <hr>
61 <fieldset>
62 <legend><b>Contact Info</b></legend>
63 <table width="100%">
64 <tr>
65 <th><label>E-mail:</label>
```

```

57     <th><label>E-mail:</label>
58     <input type="email" id="a3" placeholder="Enter your e-mail here" required></th>
59     <th><label>Mobile No:</label>
60     <input type="tel" id="a4" placeholder="Enter your mobile number" pattern="[789][0-9]{9}" required></th>
61 </table>
62 <br>
63 <fieldset>
64     <legend><b>Address</b></legend>
65     <table width="100%">
66     <th><label>Permanent Address:</label>
67     <br>
68     <textarea name="name" rows="5" cols="40" id="a5" placeholder="Type your permanent address here"></textarea></th>
69     <th><label>Correspondence Address:</label>
70     <br>
71     <textarea name="name" rows="5" cols="40" placeholder="Type your correspondence address here"></textarea></th>
72 </table>
73 </fieldset>
74 </fieldset>
75 <table width="100%">
76 <th><input type="submit" value="Submit" name="submit"></th>
77 <th><input type="reset" value="Clear"></th>
78 </table>
79 </form>
80 </body>
81 </html>
82

```

## CSS CODE:

```

1  body{box-sizing: border-box;
2     border: 3px solid green;
3     border-radius: 2px;
4     background-color: SlateBLUE}
5  legend{color: aqua;}
6  .abc{text-align: center;
7     margin: auto;}
8  input[type=text],input[type=Password],input[type=email],textarea{background-color: lightgrey;}
9  input[type=radio]{margin-left:70px; }
10 .abcd{margin-left: 200px;}
11 input[type=submit],input[type=reset]{background-color: ;;
12     width:40%;
13     height: 30px;}
14 .a{ text-align: center;
15    background-color: grey;}
16

```

## Javascript code:

```
1 function validate()
2 { var a= document.getElementById('a1').value;
3   var b=document.getElementById('a2').value;
4   var c= document.getElementById('a3').value;
5   var d=document.getElementById('a4').value;
6   var e=document.getElementById('a5').value;
7   var f=document.getElementById('ab').value;
8   if(a==" " || a==0)
9   {
10    alert("Please Enter Password");
11    return false;
12  }
13  if(b==" " || b==0)
14  {
15    alert("Please Enter First Name");
16    return false;
17  }
18  if(c==" " || c==0)
19  { alert("Please Enter a Valid E-mail");
20    return false;}
21  if(d==" " || d==0 || d.length<10)
22  { alert("Please Enter a Valid Number");
23    return false;}
24  if(e==" ")
25  { alert("Please Enter a valid address");
26    return false;}
27  }
28  if(f==" ")
29  { alert("Please Enter a valid gender");
30    return false;}
31  }
32
```

## PHP CODE :

```
1 <?php
2
3 if(isset($_POST['submit']))
4 { $usrnm=$_POST['username'];
5   $pss=$_POST['password'];
6   if((strlen($usrnm)<=5) or (strlen($pss)<=8) )
7   {
8     echo "Username must be 5 characters long and Password must be 8 characters long";
9   }
10 }
11 ?>
```



Output:

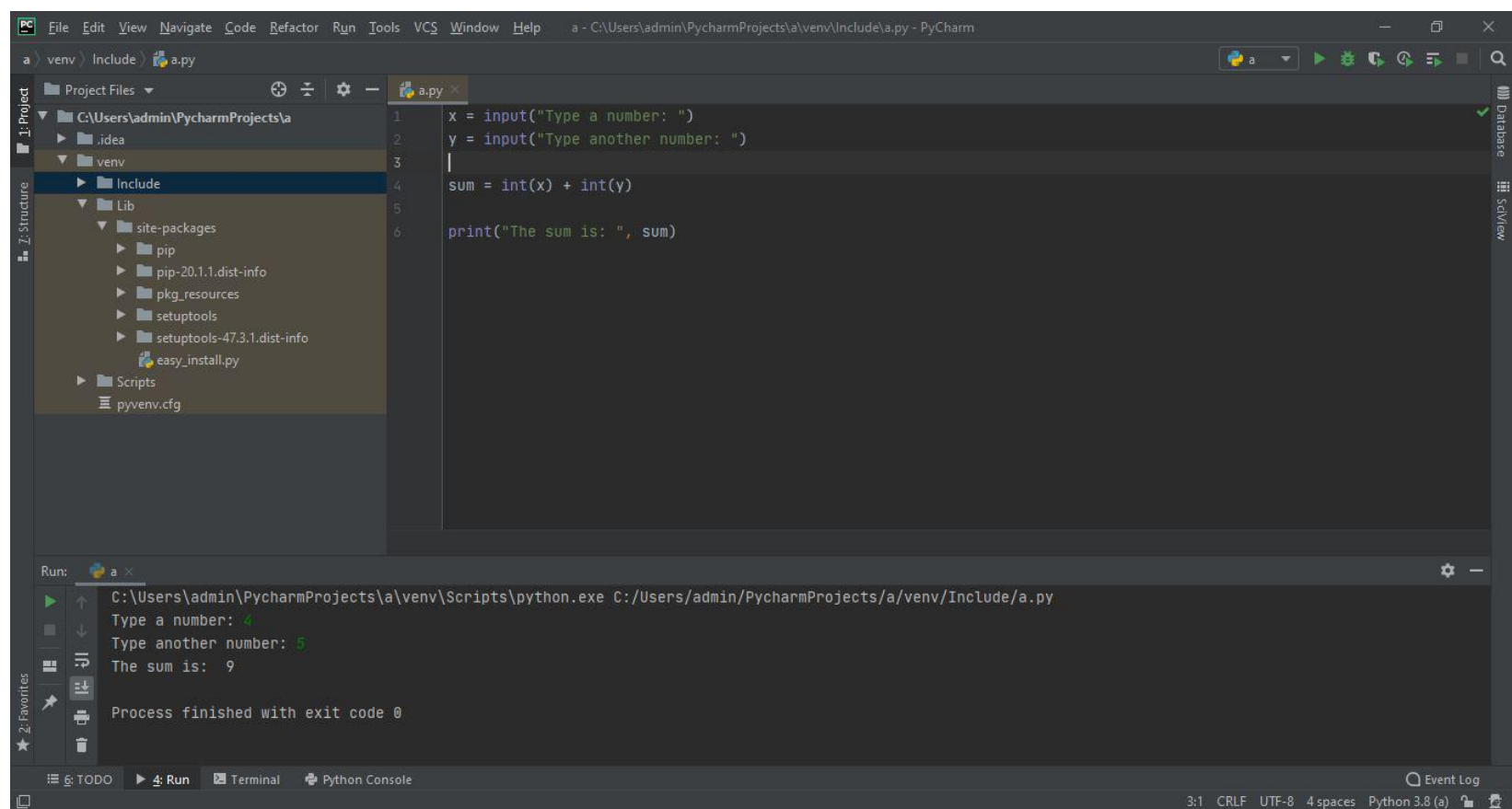
Registration Form			
Username:	<input type="text" value="Enter your username here"/>	Password:	<input type="text" value="Enter your password here"/>
<b>Personal details</b>			
First Name:	<input type="text" value="Type your first name here"/>	Last Name:	<input type="text" value="Type your last name here"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Others		
<b>Contact Info</b>			
E-mail:	<input type="text" value="Enter your e-mail here"/>	Mobile No:	<input type="text" value="Enter your mobile number"/>
<b>Address</b>			
<b>Permanent Address:</b> <input type="text" value="Type your permanent address here"/>		<b>Correspondence Address:</b> <input type="text" value="Type your correspondence address here"/>	
<input type="button" value="Submit"/>		<input type="button" value="Clear"/>	

# Writing and understanding program in python

CODE :

```
1 import math
2 x = math.sqrt(64)
3 print(x)
4 y = pow(4, 3)
5 print(y)
6
```

OUTPUT :



The screenshot displays the PyCharm IDE interface. The main editor window shows a Python file named 'a.py' with the following code:

```
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)
```

The left sidebar shows the project structure, including the 'venv' directory and its subdirectories like 'Lib' and 'Scripts'. The bottom panel shows the 'Run' output, which displays the execution of the program:

```
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
```

The status bar at the bottom indicates the file encoding is UTF-8, the line length is 3:1, and the Python version is 3.8 (a).

# Using python libraries to do scientific calculations

CODE :

```
1  import math
2      x = math.sqrt(64)
3      print(x)
4      y = pow(4, 3)
5      print(y)
6
```

OUTPUT :

