

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, SONEPAT



APPLICATION PROGRAMMING LAB WORK

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1. Creating an HTML Web Page forms :-

Solution:-

HTML Code :-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Contact us form validation Using Javascript</title>
    <link rel="stylesheet" href="styles.css">
    <script src="scripts.js"></script>
</head>
<body>

<div class="wrapper">
    <h2>Registration form</h2>
    <div id="error_message"></div>
    <form id="myform" onsubmit="return validate();">
        <div class="input_field">
            <input type="text" placeholder="first Name" id="name1">
        </div>
        <div class="input_field">
            <input type="text" placeholder="Last Name" id="name2">
        </div>

        <div class="input_field">
            <input type="text" placeholder="Roll No" id="rollno">
        </div>

        <div class="input_field">
            <input type="text" placeholder="Institute Name"
id="institute">

        </div>

        <select>
<option>--Branch name--</option>
<option>IT</option>
```

```

<option>CSE</option>
<option>ECE</option>
<option>Civil</option>
<option>Bio Tech</option>
<option>Chemical</option>
</select>
    <br>
    <br>
    <br>

    <div class="input_field">
        <input type="text" placeholder="Phone" id="phone">
    </div>
    <div class="input_field">
        <input type="text" placeholder="Email" id="email">
    </div>

    <div class="btn">
        <input type="submit">

    </div>

</form>
</div>

</body>
</html>

```

CSS Code :-

```

@import
url('https://fonts.googleapis.com/css?family=Josefin+Sans');

*{
    margin: 0;
    padding: 0px;
    box-sizing: border-box;
    outline: none;
    font-family: 'Josefin Sans', sans-serif;
}

body{
    background-image:url(1.jpg)

```

```
;}

```

```
.wrapper{
  position: absolute;
  top: 45%;
  left: 50%;
  transform: translate(-50%,-50%);
  max-width: 400px;
  width: 500%;
  height: 630px;
  background: #fff;
  padding: 25px;
  border-radius: 5px;
  box-shadow: 4px 4px 2px rgba(254,236,164,1);
}

```

```
.wrapper h2{
  text-align: center;
  margin: 0px;
  padding: 20px;
  border-radius: 4px;
  text-transform: uppercase;
  letter-spacing: 3px;
  color: #332902;
  background-color: #f07676;
}

```

```
.wrapper .input_field{
  margin-bottom: 20px;
}

```

```
.wrapper .input_field input[type="text"],
.wrapper textarea{
  border: 1px solid #fc3636;
  width: 100%;
  padding: 10px;
}

```

```
.wrapper textarea{
  resize: none;
  height: 80px;
}

```

```
.wrapper .btn input[type="submit"]{

```

```

border: 0px;
margin-top: 15px;
margin-left: 85px;
padding: 10px;
text-align: center;
width: 50%;
background: #f46868;
color: #332902;
text-transform: uppercase;
letter-spacing: 5px;
font-weight: bold;
border-radius: 25px;
cursor: pointer;
}

#error_message{
margin-bottom: 30px;
background: #f700be;
padding: 0px;
text-align: center;
font-size: 14px;
transition: all 0.5s ease;
}

select{

border: 2px solid #fc3636;
width: 100%;
padding: 10px;
margin: auto;
font-family:sans-serif;

}

.wrapper .btn input[type="submit"]:hover {
background-color: #26f800;
}

```

Javascript Code:-

```

function
validate(){
    var name1 =
document.getElementById("name1").value;
    var name2 =
document.getElementById("name2").value;

    var institute =
document.getElementById("institute").value;
    var phone =
document.getElementById("phone").value;
    var email =
document.getElementById("email").value;

    var error_message =
document.getElementById("error_message");

    error_message.style.padding = "10px";

    var text;
    if(name1.length < 5) {
        text = "Please Enter valid first Name";
        error_message.innerHTML = text;
        return false;
    }
    if(name2.length < 5) {
        text = "Please Enter valid last Name";
        error_message.innerHTML = text;
        return false;
    }

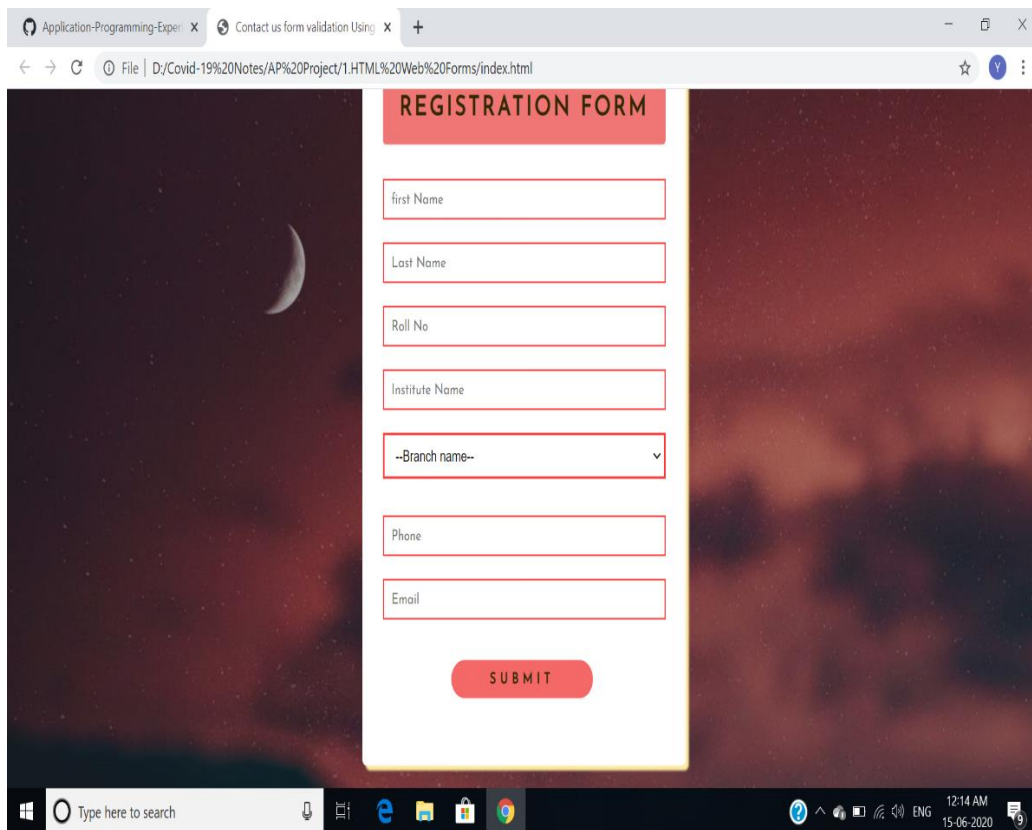
    if(institute.length < 5) {
        text = "Please Enter Institute name";
        error_message.innerHTML = text;
        return false;
    }

    if( phone.length != 10){
        text = "Please Enter valid Phone Number";
        error_message.innerHTML = text;
        return false;
    }
    if(email.indexOf("@") == -1 || email.length <
6){
        text = "Please Enter valid Email";

```

```
        error_message.innerHTML = text;  
        return false;  
    }  
  
    alert("Form Submitted Successfully!");  
    return true;  
}
```

Output: -



The screenshot shows a web browser window with two tabs: 'Application-Programming-Experi...' and 'Contact us form validation Using...'. The address bar shows the file path 'D:/Covid-19%20Notes/AP%20Project/1.HTML%20Web%20Forms/index.html'. The main content is a registration form titled 'REGISTRATION FORM' in a red header. The form fields are: 'first Name', 'Last Name', 'Roll No', 'Institute Name', a dropdown menu for 'Branch name' with a downward arrow, 'Phone', and 'Email'. A red 'SUBMIT' button is at the bottom. The background is a dark space image with a crescent moon. The Windows taskbar at the bottom shows the search bar, task view, and several application icons. The system clock shows 12:14 AM on 15-06-2020.

2.Creating Home page using HTML:-

Solution :-

HTML CODE:-

(i):save by iiit.html(main html file)

```
<!DOCTYPE
html>

    <html>
        <head>
            <title>lab assignment</title>
        </head>

        <frameset rows="15%,5%,60%,20%">
            <frame src="top.html">
            <frame src="toplast.html">
            <frame src="middle.html">
            <frame src="down.html">
        </frameset>

    </html>
```

(ii) : save by center.html :-

```
<html>
    <body><center></center>
        <ul>
            <left></left>
            <left><li>Established:2014</li></left>
            <left><li>Director:<strong>Dr.MM
DOJA</strong></li></left>
            <left><li>Campus:Urban</li></left>
        </ul>
    </body>
</html>
```

(iii):- save by down.html:-

```
<!DOCTYPE html>
<html>
    <body style="background-color:red">
        <marquee scrollamount="10">
```



```

direction="left"
behavior="scroll">
    <h1><center>Contact Details</center></h1>
        <h2><center>9411667040</center></h2>
        <h3><center>Email-
id:yashmudgalyash@gmail.com</center></h3>
    </marquee>
</body>

</html>

```

(iv) :- save by left.html:-

```

<!DOCTYPE html>
<html>
    <body>
        <h1>APPLICATION PROGRAMMING LAB</h1>
        
        <h1>Creating a IIIT,Sonepat</h1>
    </body>
</html>

```

(v) :- save by middle.html :-

```

<html>
<frameset cols="20%,60%,20%">
    <frame src="left.html">
    <frame src="centre.html">
    <frame src="right.html">
</frameset>
</html>

```

(vi):- save by right.html:-

```

<!DOCTYPE html>
<html>
    <body>
        <h1><center>Latest News</center></h1>
        <ul>
            <a href="http://iiitsonapat.ac.in/storage/Institute-
Hostel-fee-even-Sem.pdf" target="_blank"><li>Institute and Hostel
Fees</li></a>

```

```

        <a
href="http://iiitsonapat.ac.in/storage/fee%20submission%20notice.p
df"><li>Hostel fee Submission Notice</li></a>
        <a
href="http://iiitsonapat.ac.in/lifeatiiit/events"><li>Event
Gallery Orientation Program</li></a>
        <a
href="http://iiitsonapat.ac.in/storage/acedemic/academic%20calenda
r_2019.pdf"><li>Academic Calendar 2020</li></a>
        <a
href="http://iiitsonapat.ac.in/storage/notifications/Orientation%2
0Programme%202019.pdf"><li>Orientation Program 2020</li></a>
        <h1>Registration Details</h1>
        <p>Name-Yash Mudgal<br>Branch-I.T.<br>Roll Number-
119120280</p>
        </ul>
    </body>
</html>

```

(vi):-save by top.html:-

```

<html>
    <body style="background-color:red">
        <h1><center><em>Indian Institute Of Information
Technology,Sonepat</em></center></h1>

        </body>

</html>

```

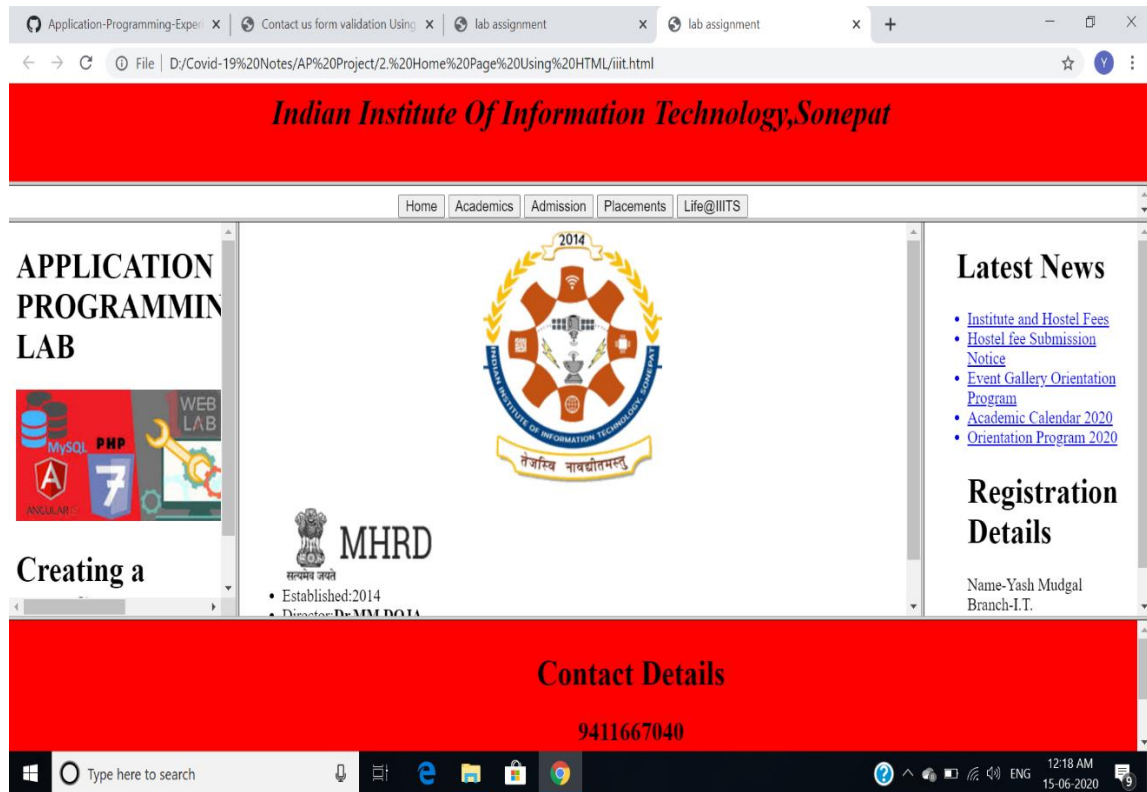
(vii):- save by top2.html:-

```

<!DOCTYPE html>
<html>
    <body>
        <center>
            <button>Home</button>
            <button>Academics</button>
            <button>Admission</button>
            <button>Placements</button>
            <button>Life@IIITS</button>
        </center>
    </body>
</html>

```

Output :-



3. Creating XHTML and CSS and understanding its use in creating web pages :-

Solution:-

XHTML Code:-

```
<!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 Form</title>
    <link rel="stylesheet" href="3.css">
  </head>
  <body>
    <div class="ab">
<h1>Personal Details</h1></div>

    <div>
      <div class="dv">
<form method="post">
      <table width="100%">
        <th><label>First Name</label>
        <input type="text" placeholder="Enter your Firstname
here"></th>
        <th><label for="">Last Name</label>
        <input type="text" placeholder="Enter your Lastname
here"></th>
      </table>
      <br>
      <br>
      <div>
        <label class="abc"><b>E-mail:</b></label>
      <br>
      <input type="email" placeholder="Enter your email here">
      <br>
      <br>
      <br>
      <br>
      <label class="abc">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>
      <br>
      <br>
```

```

<br>
<label class="abc">Mobile No:</label><br>
<table width="100%">
  <th>
    <select >
      <option>Select</option>
      <option>+91</option>
      <option>+310</option>
      <option>+55</option>
      <option>+1</option>
      <option>+355</option>
    </select></th>
  <th>
    <input type="text" placeholder="Enter your Mobile number
"></th>
</table>
</div>
<hr>
<table width="100%">
  <th><input type="submit" value="Register"></th>
  <th><input type="reset" value="Clear"></th>
</table>
</form>
</div>
</div>
</body>
</html>

```

CSS Code: -

```

.dv{ background-color:#EFEFEF;
  margin: 0px 300px 300px 300px;}
  .abc{margin-left: 60px;}
input[type=email]{width:50%;
  margin-left: 60px;
}
body{background-color:#813772}
.ab{text-align: center;
  text-shadow: 5px;
  padding: 2px;
margin: auto;}


```

Output:-

Browser tabs: yashmudgal05/AP-Lab-File x Registration Form x +

Address bar: File | D:/Covid-19%20Notes/AP%20Project/3.%20Creating%20HTML%20and%20CSS%20and%20understanding%20its%20use%20in%20creating%20web%20pag

Personal Details



First Name **Last Name**

E-mail:

Gender: ☐ Male ☐ Female ☐ Others

Mobile No:

Windows taskbar: Type here to search, icons for Edge, File Explorer, Store, Chrome, and system tray with language set to ENG.

4. Setting up and configuration of Apache Tomcat server:-

Solution:-

How to Install Tomcat 7

There are certain steps we must follow for configuring Apache Tomcat 7.

Step 1:

Download and Install Tomcat

1. Go to <http://tomcat.apache.org/download-70.cgi> then go to the Binary Distribution/Core/ and download the "zip" package (for example "apache-tomcat-7.0.40.zip", about 8MB).
2. Now unzip the downloaded file into a directory of our choice. Don't unzip onto the desktop (since its path is hard to locate). I suggest using "e:\myserver". Tomcat will be unzipped into the directory "e:\myserver\tomcat-7.0.40".

Step 2:

Check the installed directory to ensure it contains the following sub-directories:

- bin folder
- logs folder
- webapps folder
- work folder
- temp folder
- conf folder
- lib folder

Step 3:

Now, we need to create an Environment Variable JAVA_HOME.

We need to create an environment variable called "JAVA_HOME" and set it to our JDK installed directory.

1. To create the JAVA_HOME environment variable in Windows XP/Vista/7 we need to push the "Start" button then select "Control Panel" / "System" / "Advanced system settings". Then switch to the "Advanced" tab and select "Environment Variables" / "System Variables" then select "New" (or "Edit"

for modification). In "Variable Name", enter "JAVA_HOME". In "Variable Value", enter your JDK installed directory (e.g., "c:\Program Files\Java\jdk1.7.0_{xx}").

2. For ensuring that it is set correctly, we need to start a command shell (to refresh the environment) and issue:

```
set JAVA_HOME
```

```
JAVA_HOME=c:\Program Files\Java\jdk1.7.0_{xx} <== Check that  
this is OUR JDK installed directory
```

3. Sometimes we need to set JRE_HOME also. So for creating JRE_HOME we need to use the same procedure. Push the "Start" button then select "Control Panel" / "System" / "Advanced system settings". Then switch to the "Advanced" tab and select "Environment Variables" / "System Variables" then select "New" (or "Edit" for modification). In "Variable Name", enter "JRE_HOME". In "Variable Value", enter your JRE installed directory (e.g., "C:\Program Files\Java\jre7\").

Step 4:

Configure Tomcat Server

The configuration files of the Apache Tomcat Server are located in the "conf" sub-directory of our Tomcat installed directory, for example "E:\myserver\tomcat7.0.40\conf".

There are 4 configuration XML files:

1. context.xml file
2. tomcat-users.xml file
3. server.xml file
4. web.xml file

Before proceeding, make a BACKUP of the configuration files.

Step 4(a): "conf\web.xml"; Enabling a Directory Listing

Open the configuration file "web.xml". We shall enable the directory listing by changing "listings" from "false" to "true" for the "default" servlet.

<param-value>true</param-value> like:


```
96 <servlet>
97     <servlet-name>default</servlet-name>
98     <servlet-class>
99         org.apache.catalina.servlets.DefaultServlet
100     </servlet-class>
101     <init-param>
102         <param-name>debug</param-name>
103         <param-value>0</param-value>
104     </init-param>
105     <init-param>
106         <param-name>listings</param-name>
107         <param-value>true</param-value>
108     </init-param>
109     <load-on-startup>1</load-on-startup>
110 </servlet>
```

Step 4(b): "conf\server.xml file"; set the TCP Port Number

Open the file "server.xml" in a text editor.

The default port number of Tomcat is 8080. Now we need to change the TCP port number for Tomcat, since the same port number can be used by other servers like SQL Server. We may choose any number between 1024 and 65535. We shall choose 9999 in this article.

Locate the following lines, and change port="8080" to port="9999". Like:

<Connector port="9999" protocol="HTTP/1.1" Like:

```
69     port 8080
70     -->
71     <Connector port="9999" protocol="HTTP/1.1"
72         connectionTimeout="20000"
73         redirectPort="8443" />
74     <!-- A "Connector" using the shared thread
75         pool-->
76     <!--
77     <Connector executor="tomcatThreadPool"
```

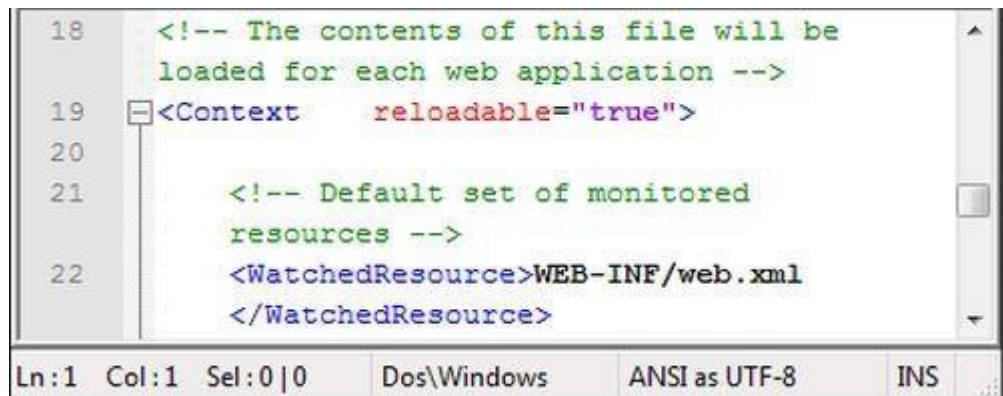
Step 4(c): "conf\context.xml"; Enabling Automatic Reload

In that we set reloadable="true" to the <Context> element to enable automatic reload after code changes. Add reloadable="true" as in the following:

```
<Context reloadable="true">
```

.....

</Context> Like:



```
18  <!-- The contents of this file will be
19  loaded for each web application -->
20  <Context reloadable="true">
21      <!-- Default set of monitored
22      resources -->
23      <WatchedResource>WEB-INF/web.xml
24      </WatchedResource>
```

Step 4(d): (Optional) "conf\tomcat-users.xml"

It is used to manage Tomcat by adding the highlighted lines, inside the <tomcat-users> elements.

In that we can add a password and username as an optional step.

Step 5:

Now, start the tomcat server

Executable programs and scripts are kept in the "bin" sub-directory of the Tomcat installed directory, e.g., "E:\myserver\tomcat7.0.40\bin".

Step 5(a): Start Server

Launch a command shell. Set the current directory to "<TOMCAT_HOME>\bin" like E:\myserver\tomcat7.0.40\bin, and run "startup.bat" as follows:

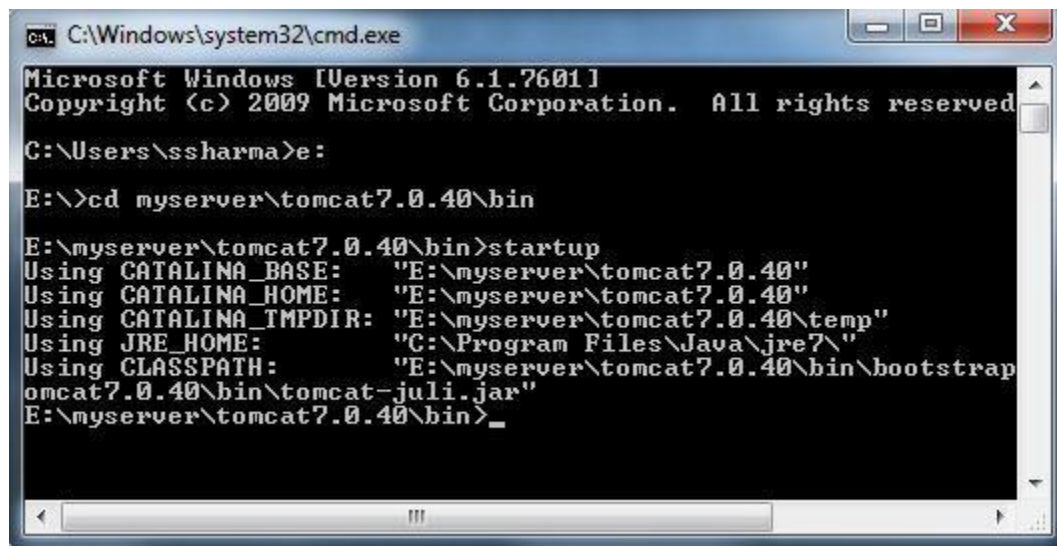


```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved

C:\Users\ssharma>e:
E:\>cd myserver\tomcat7.0.40\bin
E:\myserver\tomcat7.0.40\bin>startup_
```

After that a new Tomcat console window appears. Read the messages on the console. Look out for the Tomcat's port number (double check that Tomcat is running on port 9999).....

We saw a figure like:



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved

C:\Users\ssharma>e:
E:\>cd myserver\tomcat7.0.40\bin
E:\myserver\tomcat7.0.40\bin>startup
Using CATALINA_BASE:   "E:\myserver\tomcat7.0.40"
Using CATALINA_HOME:   "E:\myserver\tomcat7.0.40"
Using CATALINA_TMPDIR: "E:\myserver\tomcat7.0.40\temp"
Using JRE_HOME:        "C:\Program Files\Java\jre7\"
Using CLASSPATH:       "E:\myserver\tomcat7.0.40\bin\bootstrap
omcat7.0.40\bin\tomcat-juli.jar"
E:\myserver\tomcat7.0.40\bin>_
```

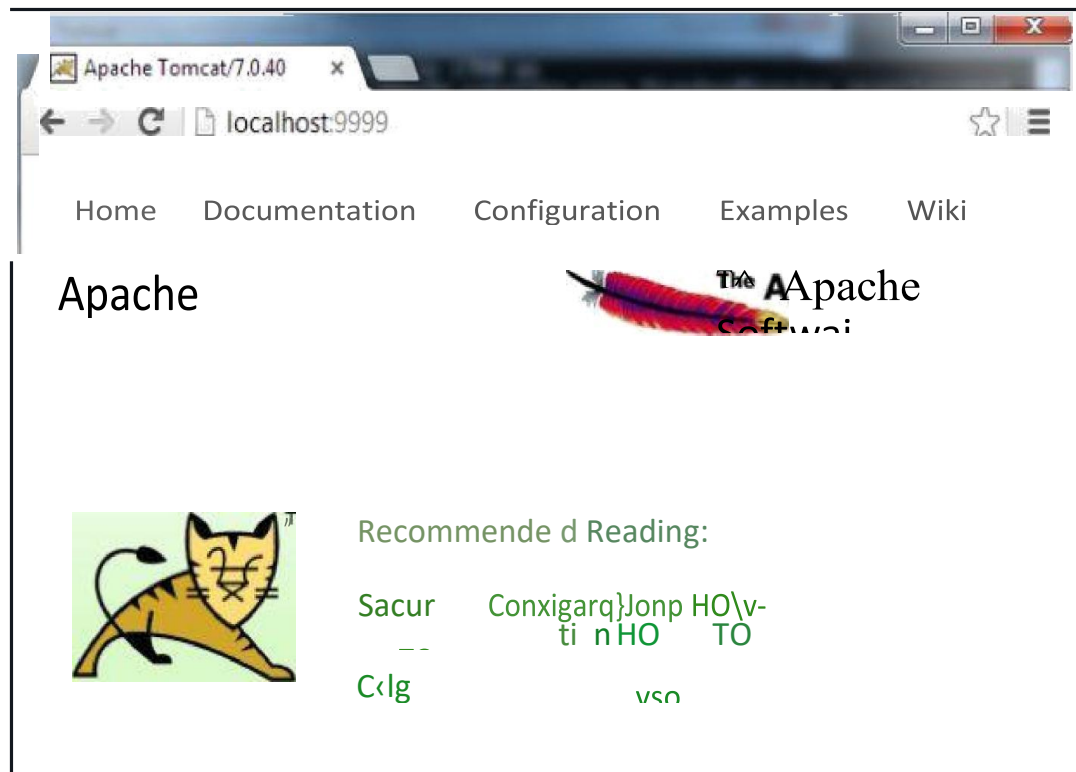
```

Tomcat
INFO: Initialization processed in 1780 ms
Jun 12, 2013 4:37:39 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Catalina
Jun 12, 2013 4:37:39 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.40
Jun 12, 2013 4:37:39 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory E:\myserver\tomcat7.0.40\webapps\docs
Jun 12, 2013 4:37:40 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory E:\myserver\tomcat7.0.40\webapps\examples
Jun 12, 2013 4:37:40 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory E:\myserver\tomcat7.0.40\webapps\host-manager
Jun 12, 2013 4:37:40 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory E:\myserver\tomcat7.0.40\webapps\nanager
Jun 12, 2013 4:37:40 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory E:\myserver\tomcat7.0.40\webapps\ROOT
Jun 12, 2013 4:37:40 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9999"]
Jun 12, 2013 4:37:40 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-bio-8009"]
Jun 12, 2013 4:37:40 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 1081 ms

```

Step 5(b): Access the Server

Open a browser then enter the URL "http://localhost:9999" to access the Tomcat server's welcome page. If we get this type of page then it means we are done.



5.Understanding modification of Web.XML :-

Solution:-

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 below content 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

The web.xml Deployment Descriptor file describes how to deploy a web application in a servlet container such as Tomcat.

This file is required for every application you deploy on Tomcat. You will find one in the jsp-examples, servlet-examples and ROOT applications provided on a new Tomcat website, and every web application example you download, including inside WAR files.

The location of the file is always the same: application root/WEB-INF/web.xml

At minimum, the file needs to contain an XML descriptor and an opening and closing <web-app> tag. Open the configuration file "web.xml". We shall enable the directory listing by changing "listings" from "false" to "true" for the "default" servlet.

< param - value > true < / param - value > like :

Web.xml configuration

1 of 1

At minimum, the file needs to contain an XML descriptor and an opening and closing <web-app> tag.
Open the configuration file "web.xml". We shall enable the directory listing by changing "listings" from "false" to "true" for the "default" servlet.
<param-value>true</param-value> like:

```
<web - Notepad>
File Edit Format View Help
    <param-name>debug</param-name>
    <param-value>0</param-value>
</init-param>
<init-param>
    <param-name>listings</param-name>
    <param-value>true</param-value>
</init-param>
    <load-on-startup>1</load-on-startup>
</servlet>
```

Type here to search

ENG

6.Creating Websites using PHP :-

Solutions:-

PHP Code:-

```
<!--including database-->
<?php include 'includes/db.php' ?>

<!-- including header -->
<?php include 'includes/header.php' ?>

<!-- including navigation -->
<?php include 'includes/navigation.php' ?>

<!-- Page Content -->
<div class="container">

    <div class="row">

        <!-- Blog Entries Column -->
        <div class="col-md-8">

            <?php

                $query = "SELECT * FROM posts";
                $select_all_posts_query =
mysqli_query($connection, $query);

                //data in database is stored like an
associative array and we can access it like [key-value] pairs
                while($row =
mysqli_fetch_assoc($select_all_posts_query))
                {
                    $post_title = $row['post_title'];
                    $post_author = $row['post_author'];
                    $post_date = $row['post_date'];
                    $post_image = $row['post_image'];
                    $post_content = $row['post_content'];
                }
            ?>
```



```

        <!--making blogs dynamically using templating (we
have used php as php only inside of html tags)-->
        <h1 class="page-header">
            Page Heading
            <small>Secondary Text</small>
        </h1>

        <!-- First Blog Post -->
        <h2>
            <a href="#"><?php echo $post_title ?></a>
        </h2>
        <p class="lead">
            by <a href="index.php"><?php echo $post_author
?></a>

            </p>
            <p><span class="glyphicon glyphicon-time"></span>
<?php echo $post_date ?> </p>
            <hr>
            
            <hr>
            <p> <?php echo $post_content ?> </p>
            <a class="btn btn-primary" href="#">Read More
<span class="glyphicon glyphicon-chevron-right"></span></a>

            <hr>

            <?php } ?>

        <!--we will also make pager dynamically -->

    </div>

    <!-- including sidebar -->
    <?php include 'includes/slidebar.php' ?>

</div>
<!-- /.row -->

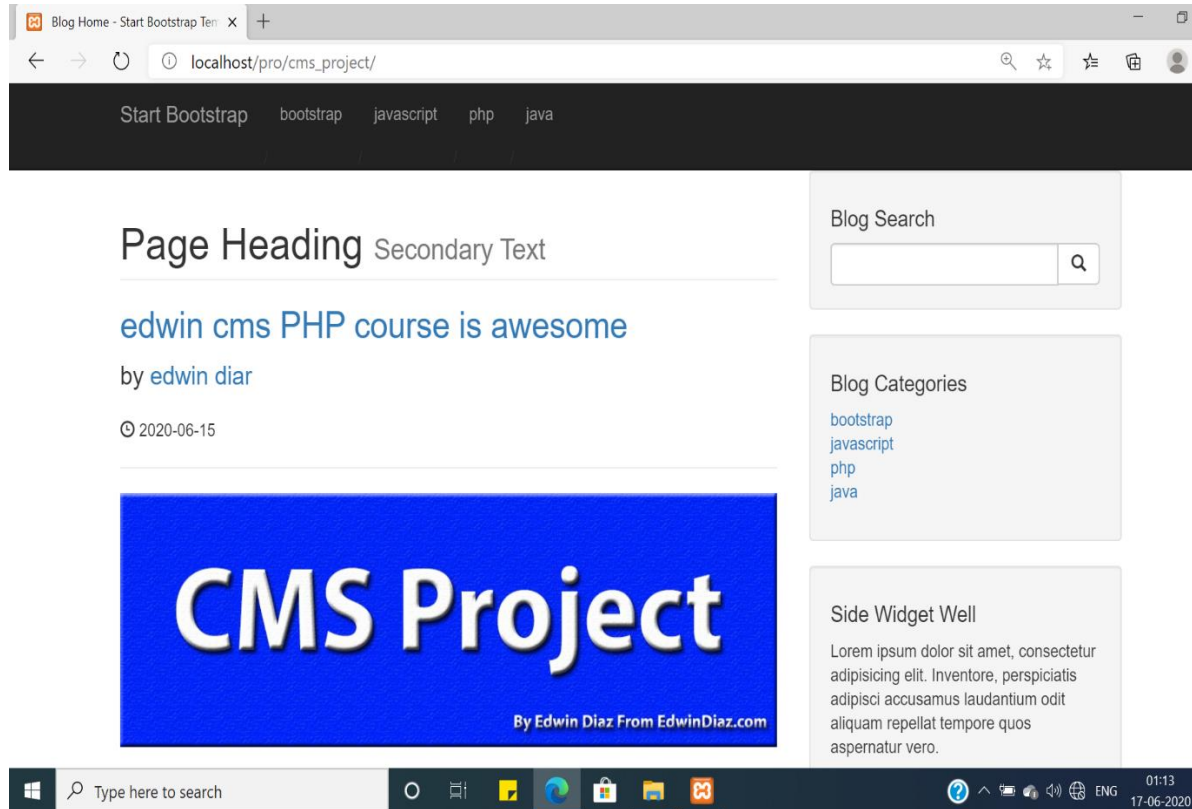
<hr>

<!-- including footer -->

```

```
<?php include 'includes/footer.php' ?>
```

Output :-



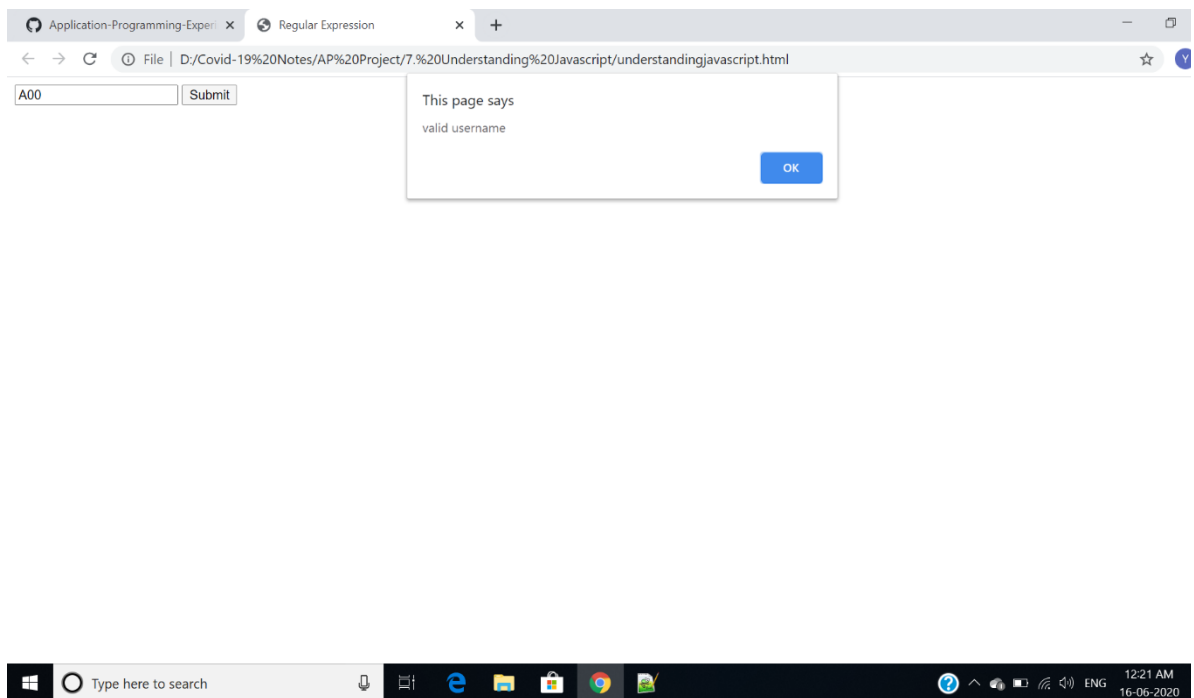
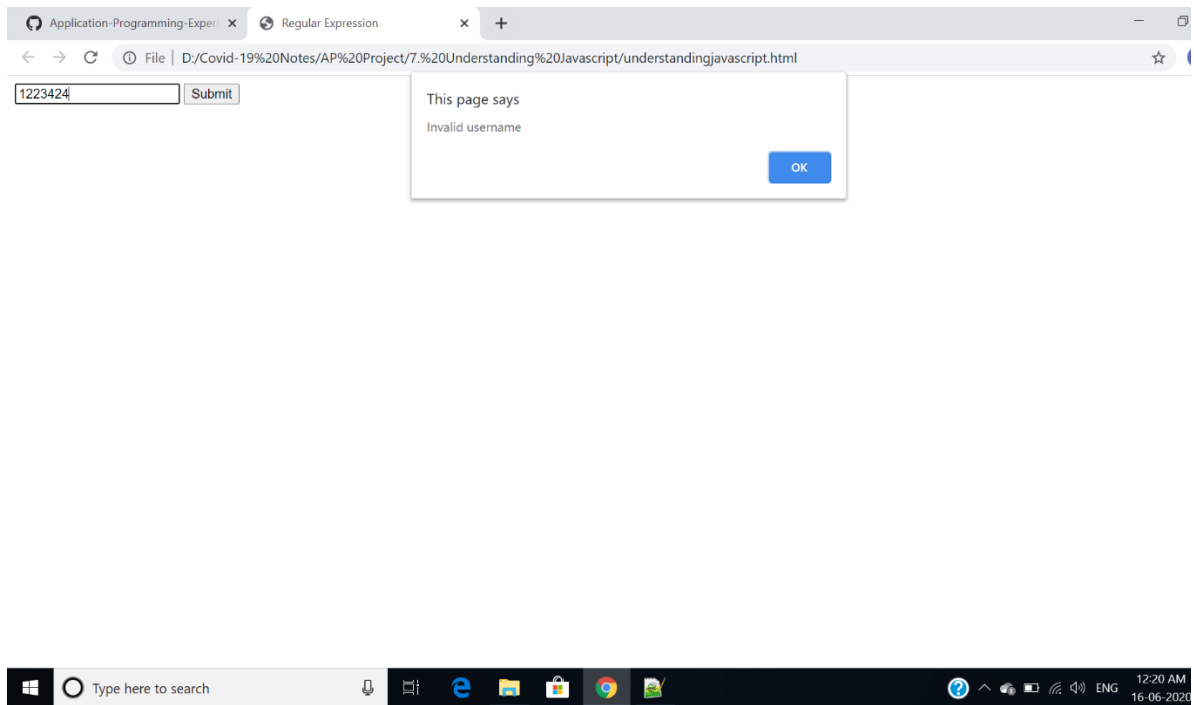
7. Understandinh Javascript:-

Solution:-

```
<!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 :-



8. Creating a Web page with back end in PHP and front end in JavaScript and hosting it on Apache Tomcat Server :-

Solution:-

HTML Code: -

```
<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>
    </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>
  <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>
</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: -

```

h1{
  font-size: 40px;
  color: darkgreen;
}

```

```

}
body
{
    box-sizing: border-box;
    border: 3px solid black;
    border-radius: 2px;
    background-color: lightgray}
    legend{color: black;}
    .abc{text-align: center;
margin: auto;}
input[type=text],input[type=Password],input[type=email],textarea
{background-color: white;}
input[type=radio]
{margin-left:70px; }
.abcd{margin-left: 200px;}
input[type=submit]
{
    background-color:green;;
        width:40%;
        height: 30px;
}
input[type=reset]
{
    background-color:red;
    width:40%;
    height: 30px;

}
.bc
{
text-align: center;
    background-color:white;
}

```

Javascript Code:-

```

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;}
}

```

PHP 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
6 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>
        </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>
</fieldset>
<table width="100%">
<th><input type="submit" value="Submit" name="submit"></th>
<th><input type="reset" value="Clear"></th>
</table>
</form>
</body>
</html>

```

Output :-

<h2 style="margin: 0; color: green;">Registration Form</h2>	
Username: <input style="width: 150px;" type="text" value="Enter your username here"/>	Password: <input style="width: 150px;" type="text" value="Enter your password here"/>
<div>Personal details</div> <div> <div> First Name: <input style="width: 100px;" type="text" value="Type your first name here"/> </div> <div> Last Name: <input style="width: 100px;" type="text" value="Type your last name here"/> </div> </div> <div> Gender <input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Others </div>	
<div>Contact Info</div> <div> <div>E-mail: <input style="width: 100px;" type="text" value="Enter your e-mail here"/></div> <div>Mobile No: <input style="width: 100px;" type="text" value="Enter your mobile number"/></div> </div>	
<div>Address</div> <div> <div> Permanent Address: <div style="border: 1px solid black; height: 40px; width: 150px; margin-top: 5px;"></div> </div> <div> Correspondence Address: <div style="border: 1px solid black; height: 40px; width: 150px; margin-top: 5px;"></div> </div> </div>	
<input style="width: 60px; height: 20px; background-color: green; color: white;" type="button" value="Submit"/>	<input style="width: 60px; height: 20px; background-color: red; color: white;" type="button" value="Clear"/>

9. Writing and understanding program in Python:-

Solution:-

```
#!/usr/bin/env python
# coding: utf-8

# Q-1. Program that Return the sum of the numbers in the array,
except ignore sections of numbers starting with a 6 and extending
to the next 9 :-
#
```

```
# In[2]:
```

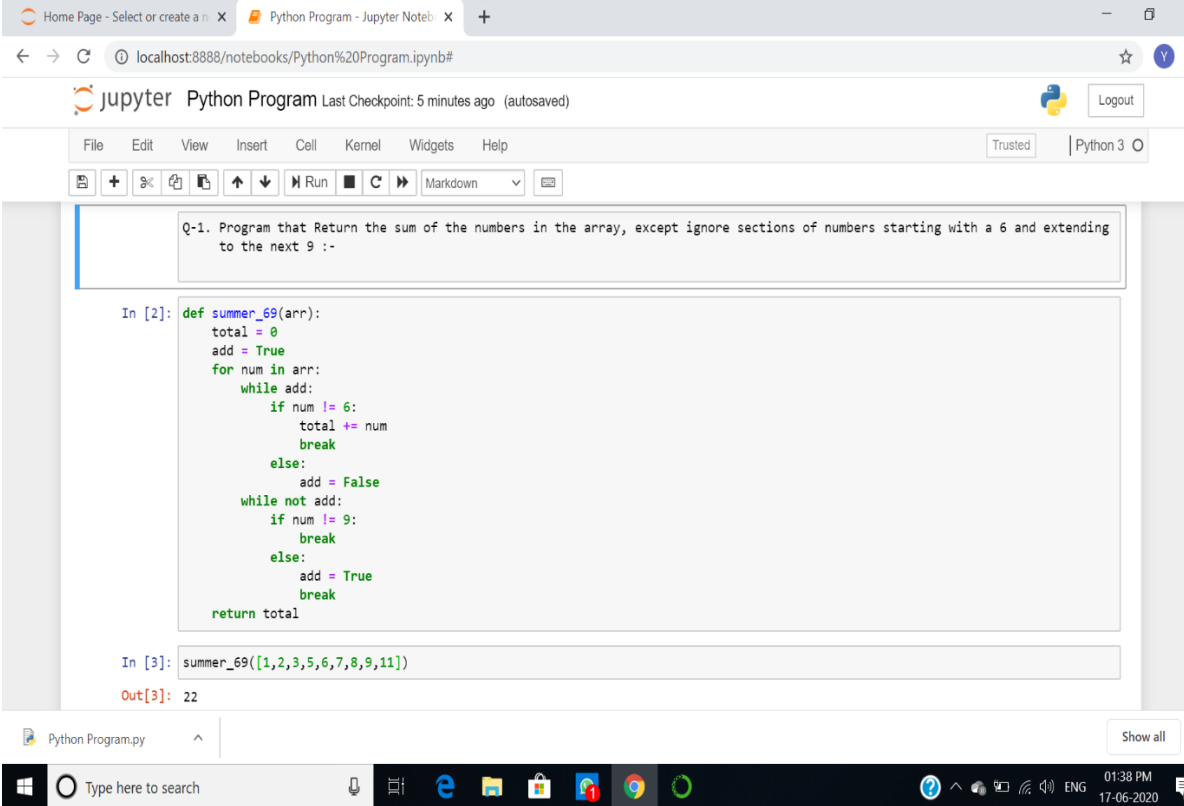
```
def summer_69(arr):
    total = 0
    add = True
    for num in arr:
        while add:
            if num != 6:
                total += num
                break
            else:
                add = False
        while not add:
            if num != 9:
                break
            else:
                add = True
                break
    return total
```

```
# In[3]:
```

```
summer_69([1,2,3,5,6,7,8,9,11])
```

```
# In[ ]:
```

Output :-



The screenshot displays a Jupyter Notebook titled "Python Program" running on a local host at `localhost:8888/notebooks/Python%20Program.ipynb#`. The interface includes a top navigation bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help" menus. Below the menu is a toolbar with icons for saving, running, and other notebook functions. The main area contains two code cells. The first cell, labeled "In [2]:", defines a function `summer_69(arr)` that calculates the sum of an array, ignoring sections starting with 6 and extending to the next 9. The second cell, labeled "In [3]:", calls the function with the array `[1,2,3,5,6,7,8,9,11]`. The output, labeled "Out[3]:", shows the result `22`. The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 01:38 PM on 17-06-2020.

Q-1. Program that Return the sum of the numbers in the array, except ignore sections of numbers starting with a 6 and extending to the next 9 :-

```
In [2]: def summer_69(arr):
        total = 0
        add = True
        for num in arr:
            while add:
                if num != 6:
                    total += num
                    break
                else:
                    add = False
            while not add:
                if num != 9:
                    break
                else:
                    add = True
                    break
        return total

In [3]: summer_69([1,2,3,5,6,7,8,9,11])

Out[3]: 22
```