

LAB FILE

APPLICATION PROGRAMMING

2014

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SONEPAT



भारतीय सूचना प्रौद्योगिकी संस्थान, सोनीपत

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



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CSE

1). Creating an HTML web page form

Source Code:

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>HTML Forms</title>
<style >
body{ background-color : #6a5acd; }
.abc{ margin :0px 300px 200px 300px ;
}
.ab{ margin : auto;
background-color: mediumseagreen;}
input[type=text],input[type=email]{ width : 90%;
}
.bc{ padding : 20px;
text-align :center;
}
</style>
</head>
<body>
<div class="bc">
<h1>Student Form</h1>

</div>
<div class="abc">
<form class="" action="Success.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="text" placeholder="Enter Your Number Here" required></td>
</tr>
<tr>
<td>E-mail:</td>
<td><input type="email" placeholder="Enter Your E-mail Here" required></td>
</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>

```



Output:

Student Form



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SONEPAT भारतीय सूचना प्रौद्योगिकी संस्थान, सोनीपत

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

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"/>

वेदस्व नावद्योतमस्तु

2). Creating Home Page using HTML.

Source Code:

1.html

```
<html>
<head>
</head>
<body>
<center></center>
</body>
</html>
```

2.html

```
<html>
<head>
</head>
</head>
<frameset cols="15%,70%,15%">
<frame src="4.html">
<frame src="5.html">
<frame src="6.html">
</frameset>
</html>
```

3.html

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

```
<marquee><h1>Address- IIT DELHI TECHNO PARK,SONEPAT Contact No.  
123456789</h1></marquee>
```

```
</body>
```

```
</html>
```

4.html

```
<html>
```

```
<head>
```

```
<style>
```

```
h1 {
```

```
text-shadow: 2px 2px 5px purple;
```

```
}
```

```
h3
```

```
{
```

```
text-shadow: 2px 2px 5px pink;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h3>Latest News</h3>
```

```
<p><pre>
```

```
>Notice for the Extension
```

```
for Suspension of classes
```

```
>Notice for the Extension
```

```
for Suspension of classes
```

```
>Re-scheduling of Summer
```

```
Vacation.
```

```
>Notice for the Extension
```

```
for Suspension of classes
```

```
>Hostel Fees Notice for Academic year 2019-2020</pre></p>
```

```
</body>
```

```
</html>
```

5.html

```
<html>
```

```
<head>
```

```
<style>
```

```
button
```

```
{
```

```

font-size:20px;
}
body {
background-image: url("img.jpg");
background-color: #cccccc;
background-size: cover;
}
</style>
</head>
<body>
<center><div>
<p><button type="Home">Home</button>
<button type="About">About</button>
<button type="Admission">Admission</button>
<button type="Acadmics">Acadmics</button>
<button type="Acadmics">Examination</button>
<button type="Acadmics">Placements</button>
<button type="Acadmics">Students</button>
<button type="Acadmics">Activities</button></p>
</div></center>
</body>
</html>

```

6.html

```

<html>
<head>
<style>
h1 {
text-shadow: 2px 2px 5px purple;
}
</style>
</head>
<body>
<h3>about us</h3>

```

<p>Indian Institute of Information Technology, Sonapat (IIIT, Sonapat) is one of the Indian Institutes of Information Technology located at Sonapat, Haryana. The academic session of IIIT Sonapat started from its mentor Institute National Institute of Technology, Kurukshetra from year 2014. IIIT Sonapat is a joint venture of the Ministry of Human Resource Development, Government of India, the Govt. of Haryana, with Industries in

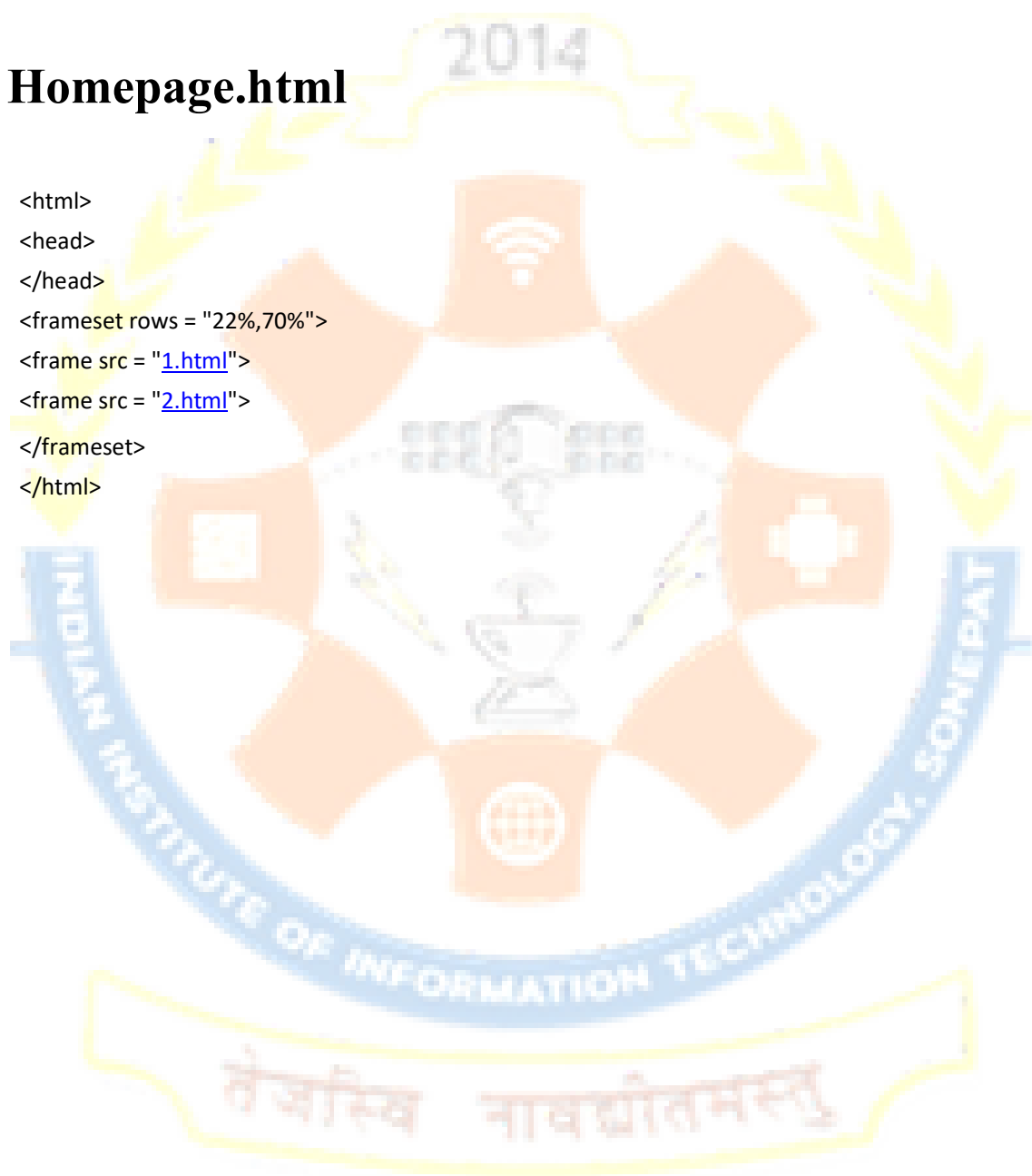
Public-Private Partnership model and has been declared as the Institute of national importance.<p>

</body>

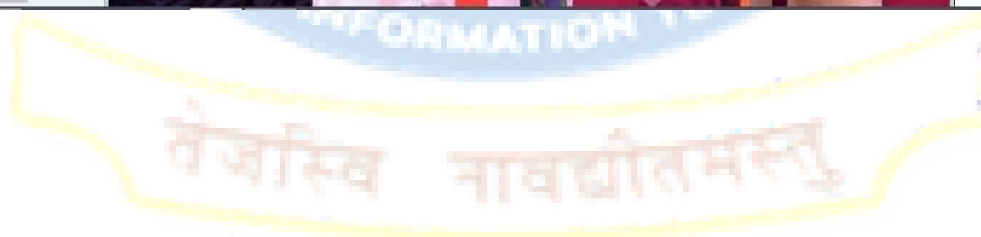
</html>

Homepage.html

```
<html>
<head>
</head>
<frameset rows = "22%,70%">
<frame src = "<a href='1.html'>1.html">
<frame src = "<a href='2.html'>2.html">
</frameset>
</html>
```



Output:



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

Source 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="AP.css">
</head>
<body>
<div class="ab">
<h1>Create Your Account</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%">
<tr>
<td>
<select >
<option>Select</option>
<option>+91</option>
<option>+310</option>
<option>+55</option>
<option>+1</option>
<option>+355</option>
</select></td>
<td>
<input type="text" placeholder="Enter your Mobile number "></td>
</tr>
</table>
</div>
<hr>
<table width="100%">
<tr>
<td><input type="submit" value="Register"></td>
<td><input type="reset" value="Clear"></td>
</tr>
</table>
</form>
</div>
</div>
</body>
</html>

```

AP.css

```

.dv{ background-color:Lightgrey;
margin: 0px 300px 300px 300px;}
.abc{margin-left: 60px;}


```

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



Output:

Create Your Account

PROGRAMMING

First Name

Last Name

E-mail:

Gender: ☐ Male ☐ Female ☐ Others

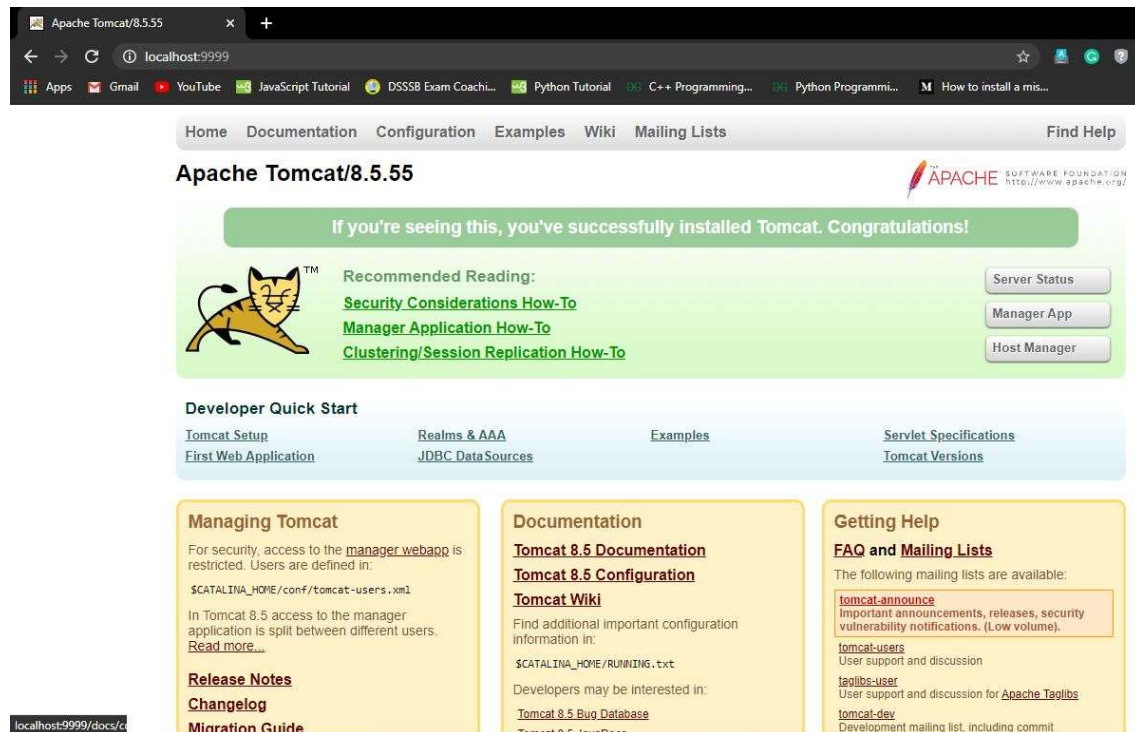
Mobile No:

Register

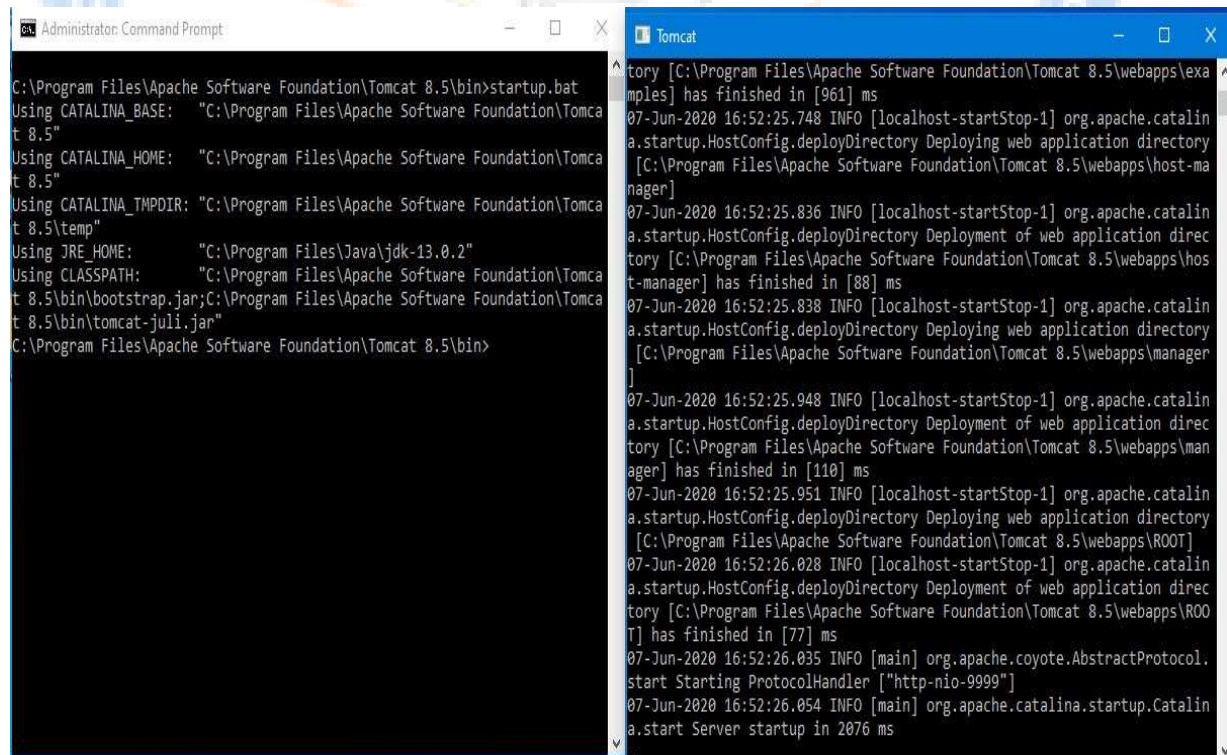
Clear



4). Setting up and configuration of Apache Tomcat server.



The screenshot shows the Apache Tomcat/8.5.55 web interface in a browser. The address bar shows 'localhost:9999'. The page has a navigation bar with links: Home, Documentation, Configuration, Examples, Wiki, Mailing Lists, and Find Help. The main heading is 'Apache Tomcat/8.5.55'. Below it, a green banner says 'If you're seeing this, you've successfully installed Tomcat. Congratulations!'. There is a cat icon and 'Recommended Reading' links: Security Considerations How-To, Manager Application How-To, and Clustering/Session Replication How-To. On the right, there are buttons for Server Status, Manager App, and Host Manager. Below this is a 'Developer Quick Start' section with links for Tomcat Setup, Realms & AAA, Examples, and Servlet Specifications. Further down are three yellow boxes: 'Managing Tomcat' (with links for Release Notes, Changelog, and Migration Guide), 'Documentation' (with links for Tomcat 8.5 Documentation, Tomcat 8.5 Configuration, and Tomcat Wiki), and 'Getting Help' (with links for FAQ and Mailing Lists). The bottom left corner shows a small snippet of a file path: 'localhost:9999/docs/c'.



The screenshot shows two windows. The left window is an 'Administrator: Command Prompt' with the following text:

```
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>
```

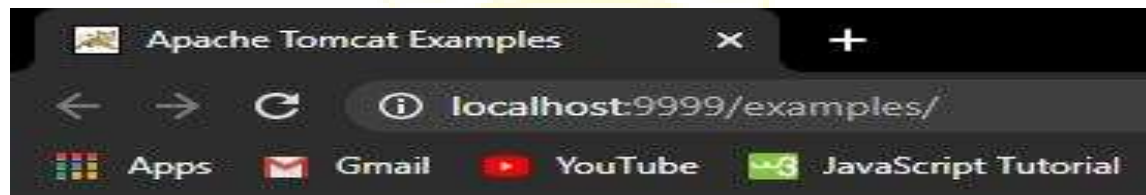
The right window is titled 'Tomcat' and shows a log of startup events:

```
...ory [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
```



```
<!-- The contents of this file will be loaded for each web application -->
<Context reloadable="true">

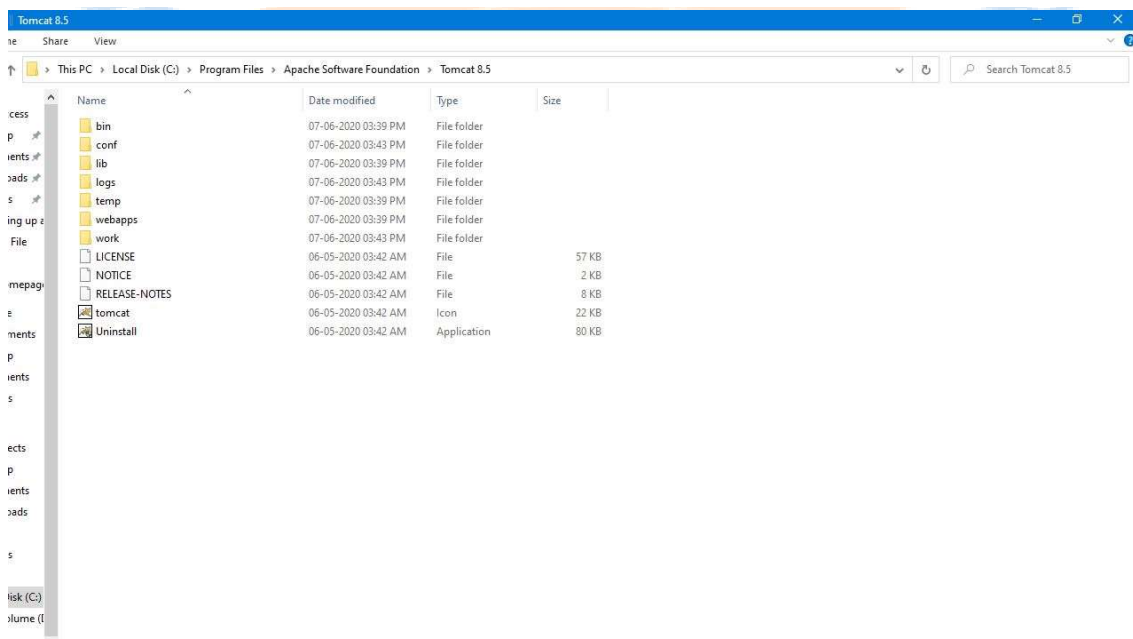
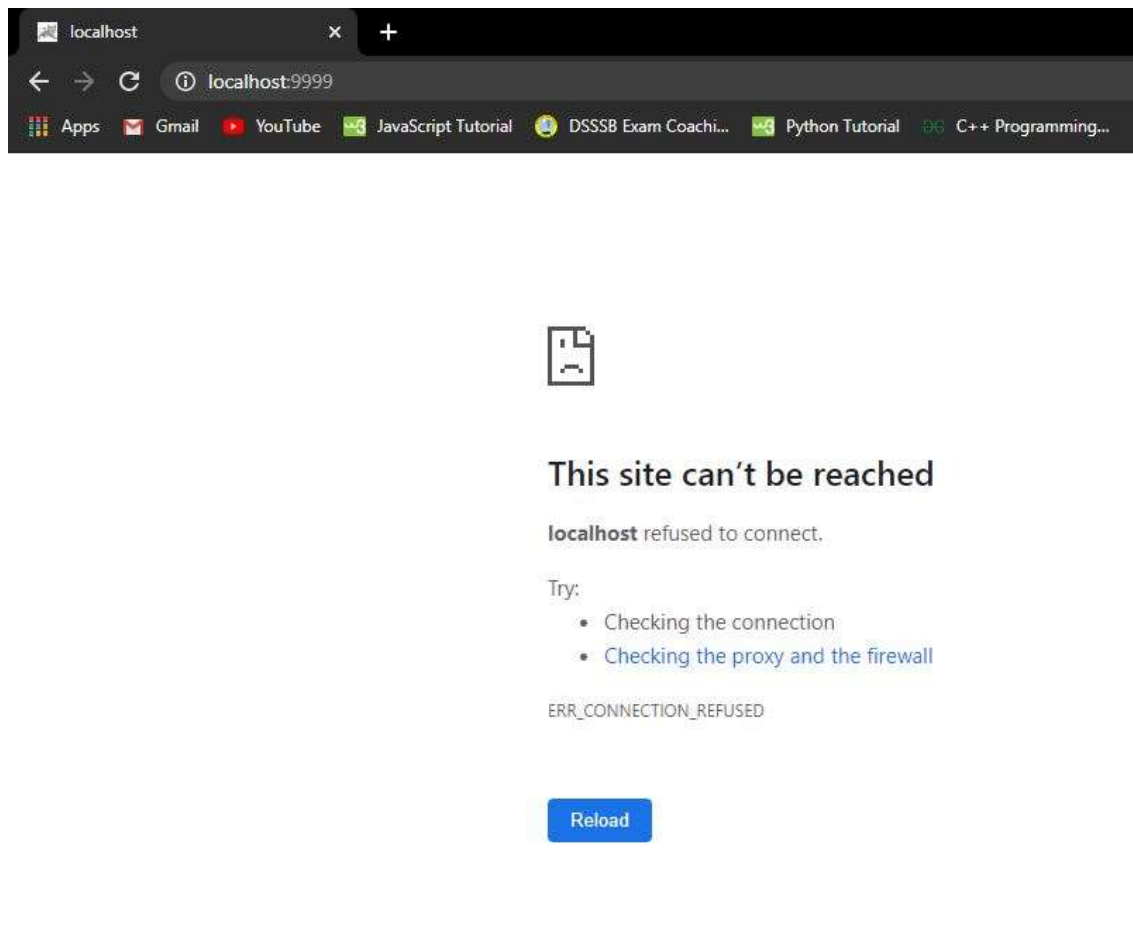
    <!-- Default set of monitored resources. If one of these changes, the    -->
    <!-- web application will be reloaded.                                -->
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
```



Apache Tomcat Examples

- [Servlets examples](#)
- [JSP Examples](#)
- [WebSocket Examples](#)

```
<!-- A "Connector" represents an endpoint by which requests are received
and responses are returned. Documentation at :
Java HTTP Connector: /docs/config/http.html
Java AJP Connector: /docs/config/ajp.html
APR (HTTP/AJP) Connector: /docs/apr.html
Define a non-SSL/TLS HTTP/1.1 Connector on port 9999
-->
<Connector port="9999" protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8443" />
<!-- A "Connector" using the shared thread pool-->
<!--
<Connector executor="tomcatThreadPool"
    port="9999" protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8443" />
-->
```




```
*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>
```



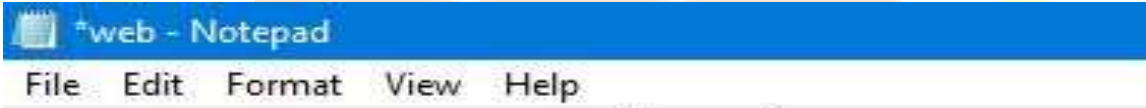
5). Understanding modification of Web.XML

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 - 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>
```

6). Creating Websites using PHP.

Source Codes:

index.php

```
<?php echo file_get_contents("header.html");?>
<?php echo file_get_contents("navigation.html");?>
<?php echo file_get_contents("body.html");?>
<?php echo file_get_contents("footer.html");?>
```

about.php

```
<?php echo file_get_contents("header.html");?>
<?php echo file_get_contents("navigation.html");?>
<?php echo file_get_contents("ft.html");?>
```

contact.php

```
<?php echo file_get_contents("header.html");?>
<?php echo file_get_contents("navigation.html");?>
<?php echo file_get_contents("abt.html");?>
```

navigation.html

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<style>
.topnav {
overflow: hidden;
background-color: #333;
width : 100%;
}
.topnav a {
float: left;
```

```

display: block;
color: #f2f2f2;
text-align: center;
padding: 14px 16px;
text-decoration: none;
}
.topnav a:hover {
background-color: #ddd;
color: black;
}
</style>
</head>
<body>
<div class="topnav">
<a href="index.php">Home</a>
<a href="about.php">About Us</a>
<a href="contact.php">Contact Us</a>
</div>
</body>
</html>

```

header.html

```

<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>Programeez</title>
</head>
<body>
<div >

</div>
</body>
</html>

```

body.html

```

<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<style>
.mySlides {display:none;}
</style>
</head>
<body style="background-color:#DDDDDD;">
<div style="max-height:800px">
  
  
  
  
  
  
</div>

<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, 2000); // Change image every 2 seconds
}
</script>
</body>
</html>

```

ft.html

```

<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<style media="screen">
  body{
    background-image: url("8.jpg");

```

```

background-repeat: no-repeat;
background-size : cover;
display: block;
color: white;
text-align: left;
padding: 14px 16px;
text-decoration: none;
}
</style>
</head>
<body>
<div >
<p><pre><b>
Programmeez is optimized for learning, testing, and training.Examples might be simplified to
improve reading and basic understanding.
Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot
warrant full correctness of all content.
While using this site, you agree to have read and accepted our terms of use, cookie and
privacy policy.
Copyright 2020. All Rights Reserved.
</b>
</pre>
</p>
</div>
<div >
<footer>
<address>
Rohtak, Haryana
124001
</address>
</footer>
<p> Copyright © GT 2019</p>
</div>
</body>
</html>

```

abt.html

```

<html>
<head>
<style >
a{ text-decoration :none;}
body {
background-image: url("7.jpg");
background-repeat: no-repeat;

```

```

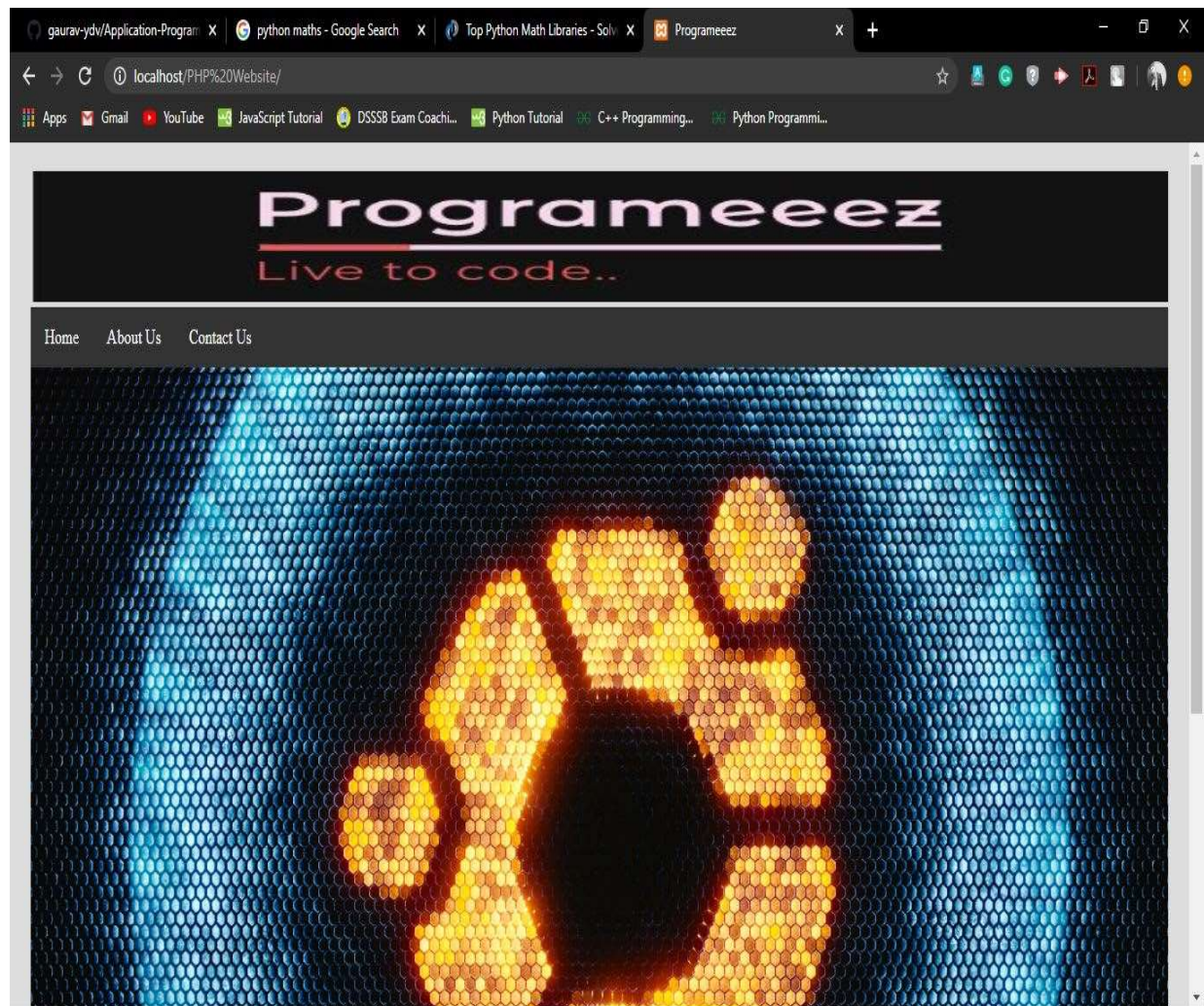
background-color: #cccccc;
background-size : cover;
}
div{ color: white;

}
</style>
</head>
<body>
  <a href="mailto:programeez@abc.com?subject=feedback">Email Us</a>
  <br>
  <br>
  <div >
    <footer>
      <address>
        Rohtak, Haryana
        124001
      </address>
    </footer>
    <p> Copyright © GT 2019</p>
  </div>
</body>
</html>

```



Output:



7). Understanding JavaScript.

Source Codes:

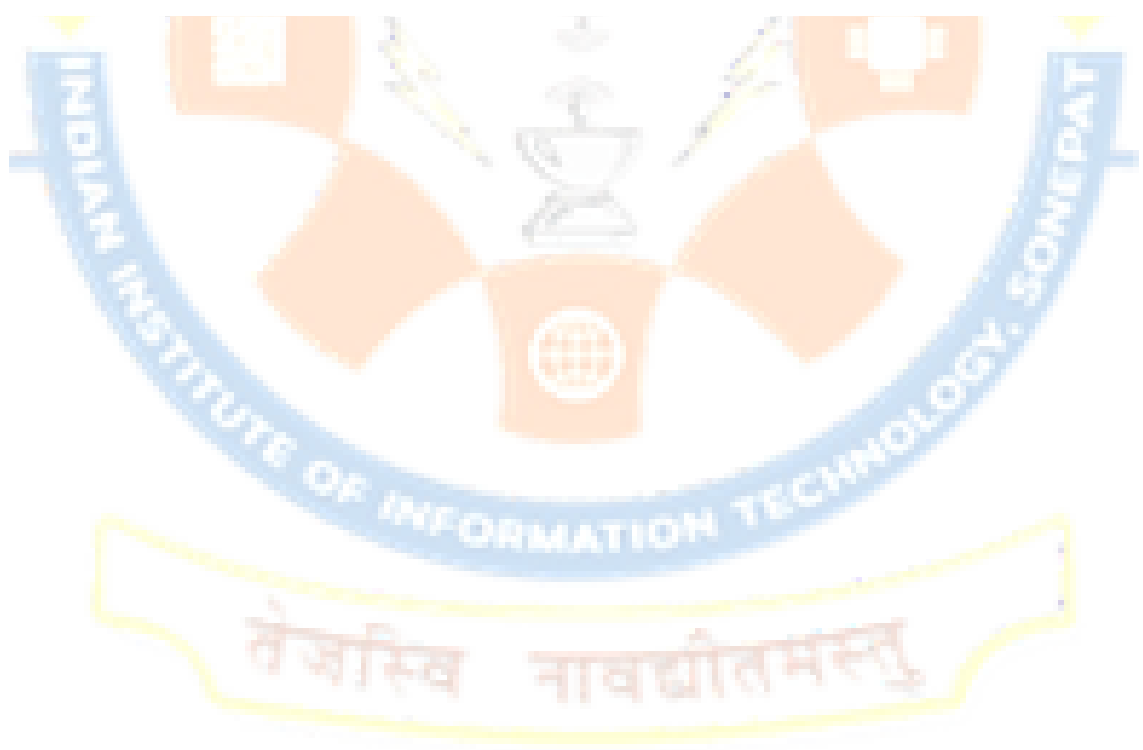
```
<!DOCTYPE html>
<html>
<head>
  <title>Regular Expression</title>
  <script type="text/javascript">
    function validate()
    {
      var username=document.getElementById("uname").value;
      var regx=/A00/;
      if(regx.test(username))
      {
        alert("valid username");
      }
      else
      {
        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:

This page says

Invalid username

OK



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

Source Code:

Form validation.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%">
<tr>
<th class="bc"><h1>Registration Form</h1></th>
<th></th>
</tr>
</table>
</div>
<form method="POST" action=" " name="regform" onsubmit="return validate()">
<fieldset>
<div class="abc">
<table width="100%">
<tr>
<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>
</tr>
</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>
```

form.js

```
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;}
}
```

form.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;}
```



Output:

Registration Form



Coderzz

Life with programming

Username:

Password:

Personal details

First Name:

Last Name:

Gender

☐ Male

☐ Female

☐ Others

Contact Info

E-mail:

Mobile No:

Address

Permanent Address:

Correspondence Address:

Submit

Clear

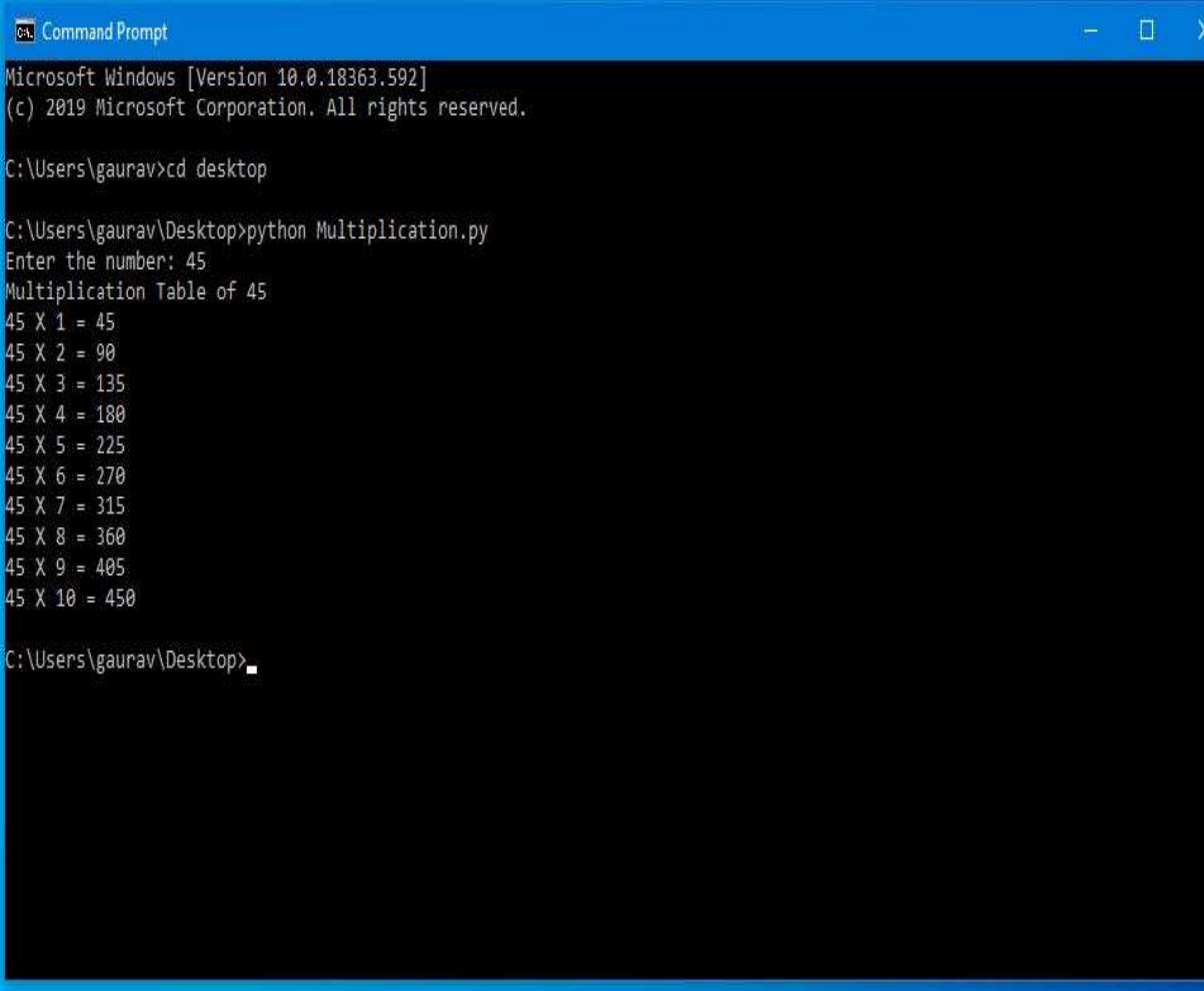
9). Writing and understanding program in Python.

Source Code:

```
#Multiplication Table
num = int(input("Enter the number: "))

print("Multiplication Table of", num)
for i in range(1, 11):
    print(num,"X",i,"=",num * i)
```

Output:



```
Command Prompt
Microsoft Windows [Version 10.0.18363.592]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\gaurav>cd desktop

C:\Users\gaurav\Desktop>python Multiplication.py
Enter the number: 45
Multiplication Table of 45
45 X 1 = 45
45 X 2 = 90
45 X 3 = 135
45 X 4 = 180
45 X 5 = 225
45 X 6 = 270
45 X 7 = 315
45 X 8 = 360
45 X 9 = 405
45 X 10 = 450

C:\Users\gaurav\Desktop>
```


10). Use Python Libraries like Math statistics to create programs for Scientific Computations.

Source Code:

```
print("This is a program to plot a graph between axes:-")
import matplotlib.pyplot as plt
k = int(input("Enter the number of elements:"))
print("Enter the elements to be plotted on the x-axis:")
x=[]
print("Please select the type of input:")
print("0 for integer value")
print("1 for strings")
print("2 for float value")
choice1 = int(input())
if choice1==0:
    for i in range(0,k):
        element= int(input())
        x.append(element)
elif choice1==1:
    for i in range(0,k):
        element= input()
        x.append(element)
elif choice1==2:
    for i in range(0,k):
        element= float(input())
        x.append(element)
else :
    print("Invalid Choice")
print("Enter the elements to be plotted on the y-axis:")
y=[]
print("Please select the type of input:")
print("0 for integer value")
print("1 for strings")
print("2 for float value")
choice2 = int(input())
if choice2==0:
    for i in range(0,k):
        ele= int(input())
        y.append(ele)
elif choice2==1:
```

```
for i in range(0,k):
    ele= input()
    y.append(ele)
elif choice2==2:
    for i in range(0,k):
        ele= float(input())
        y.append(ele)
else :
    print("Invalid Choice")
plt.plot(x,y)
n=input("X label:")
m=input("Y label:")
g=input("Graph Title:")
plt.xlabel(n)
plt.ylabel(m)
plt.title(g)
plt.show()
```



Output:

```
Command Prompt - python plot.py
C:\Users\gaurav\Desktop\Data\AP Lab File\10). Use Python Libraries like Math sta
tistics to create programs for Scientific Computations>python plot.py
This is a program to plot a graph between axes:-
Enter the number of elements:3
Enter the elements to be plotted on the x-axis:
Please select the type of input:
0 for integer value
1 for strings
2 for float value
1
Gaurav
Deepak
Sombir
Enter the elements to be plotted on the y-axis:
Please select the type of input:
0 for integer value
1 for strings
2 for float value
0
90
78
100
X label:Students
Y label:Marks
Graph Title:Student Marks Graph
```

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Student Marks Graph

