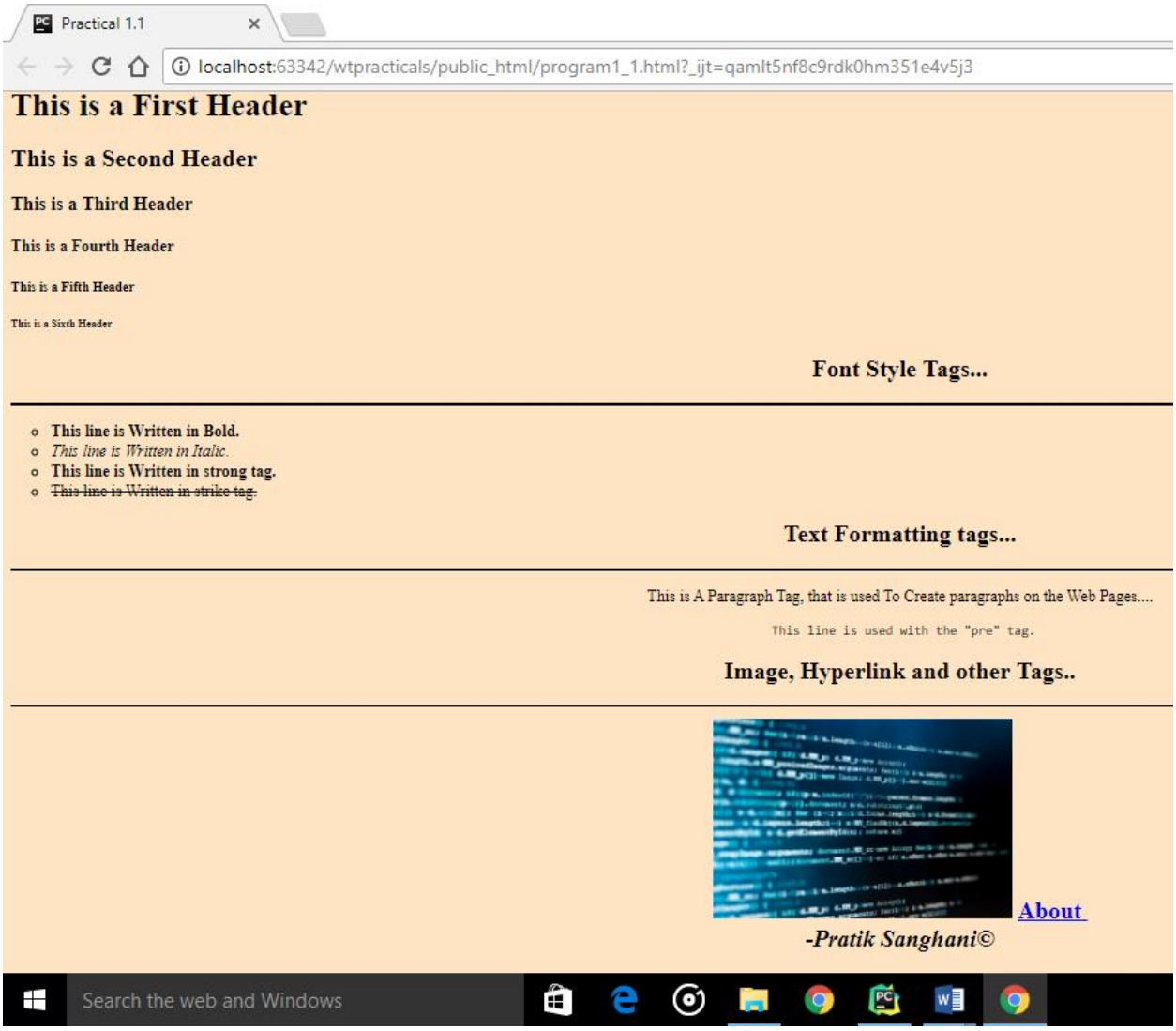
PRACTICAL – 1 (HTML)

1. Create a simple HTML Web Page Using Basic Tabs.

```
<!DOCTYPE html>
<html>
    <head >
        <title>Practical 1.1</title>
    </head>
    <body bgcolor="#ffe4c4">
        <h1>This is a First Header</h1>
        <h2>This is a Second Header</h2>
        <h3>This is a Third Header</h3>
        <h4>This is a Fourth Header</h4>
        <h5>This is a Fifth Header</h5>
        <h6>This is a Sixth Header</h6>

        <center><h2> Font Style Tags...<h2></center><hr color="black">
        <ul type="circle">
        <li><b> This line is Written in Bold. </b></li>
        <li><i>This line is Written in Italic. </i></li>
        <li><strong> This line is Written in strong tag. </strong></li>
        <li><strike> This line is Written in strike tag. </strike></li>
        </ul>
```

```
<center><h2> Text Formatting tags...<h2></center><hr color=black>

<div align="center">

<p>

   <basefont face="Comic Sans MS" size="10" color="#7fffd4">

        This is A Paragraph Tag, that is&
nbsp;used To Create paragraphs on the W
eb Pages....

</p>

<pre> This line is used with the "pre" tag.</pre>

</div>


<center><h2>Image, Hyperlink and other Tags..  <h2><hr color=black>

<img src="1455543670409.jpg" width="300" height="200">

<a href="https://en.wikipedia.org/wiki/Software_Engineering">About </a><br>

<em>-Pratik Sanghani&copy;</em></center>

    </body>

</html>
```

OUTPUT:

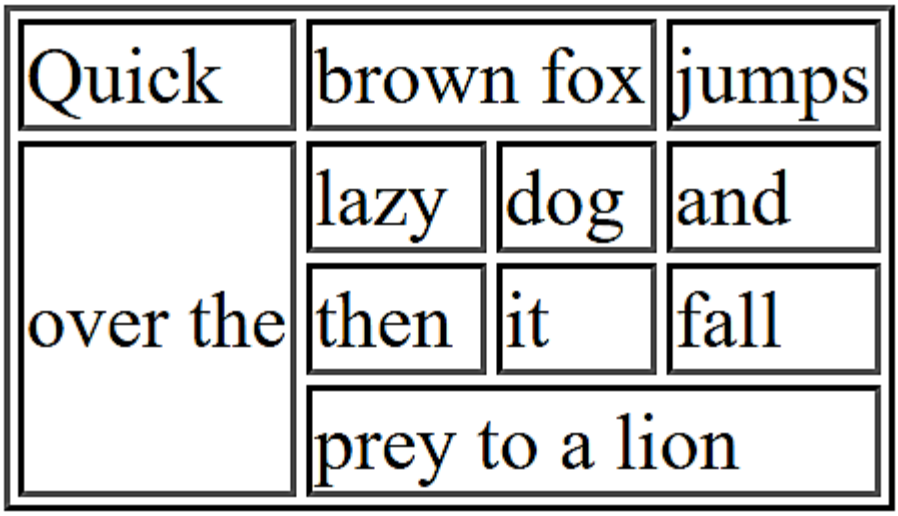

Practical 1.1
localhost:63342/wtpracticals/public_html/program1_1.html?_ijt=qamlt5nf8c9rdk0hm351e4v5j3
This is a First Header
This is a Second Header
This is a Third Header
This is a Fourth Header
This is a Fifth Header
This is a Sixth Header
Font Style Tags...
This line is Written in Bold.
This line is Written in Italic.
This line is Written in strong tag.
This line is Written in strike tag.
Text Formatting tags...
This is A Paragraph Tag, that is used To Create paragraphs on the Web Pages....
This line is used with the "pre" tag.
Image, Hyperlink and other Tags..
About
-Pratik Sanghani©
Search the web and Windows

2. Design Table using HTML table tags.

```
<!DOCTYPE html>
<html>
	<head>
		<title>Program 1.2</title>
	</head>
	<body>
		<table border="1" align="center">
			<tr>
				<td>Quick</td>
				<td colspan="2">brown fox</td>
				<td>jumps</td>
			</tr>
			<tr>
				<td rowspan="3">over the</td>
				<td>lazy</td>
				<td>dog</td>
				<td>and</td>
			</tr>
			<tr>
				<td>then</td>
				<td>it</td>
				<td>fall</td>
			</tr>
			<tr>
				<td colspan="3">prey to a lion</td>
			</tr>
```

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

OUTPUT:



3. Create a simple HTML form.

```
<!DOCTYPE html>
<html>
   <head>
      <title>Program 1.3</title>
   </head>
   <body>
      <h1>Travel reservation form</h1>
      <h3>* denotes mandatory</h3>
      <form method="post">
            Full name*:<br/>
            <input type="text" placeholder="FirstName LastName" required ><br/>
            Email address*:<br/>
            <input type="text" placeholder="EMAIL_ADDRESS" required ><br/>
            Select Tour Package*:<br/>
            <select>
               <option>Goa</option>
               <option>NewYork</option>
            </select><br/>
            Arrival date*:<br/>
            <input type="date" placeholder="m/d/y" required ><br/>
            Number of persons*:<br/>
            <input type="text" placeholder="UNKNOWN_TYPE" required ><br/>
            What would you want to avail?*<br/>
            Boarding<input type="checkbox"><br/>
            Foodding<input type="checkbox"><br/>
            Sight seeing<input type="checkbox"><br/>
```

```
            Discount Coupon code:<br/>
            <input type="text" placeholder="UNKNOWN_TYPE"><br/>
            Terms and conditions*<br/>
            <input type="radio" name="r1">I agree
            <input type="radio" name="r1">I disagree<br/>
            <input type="submit" value="Complete reservation">
        </table>
    </form>
  </body>
</html>
```

Travel reservation form

*** denotes mandatory**

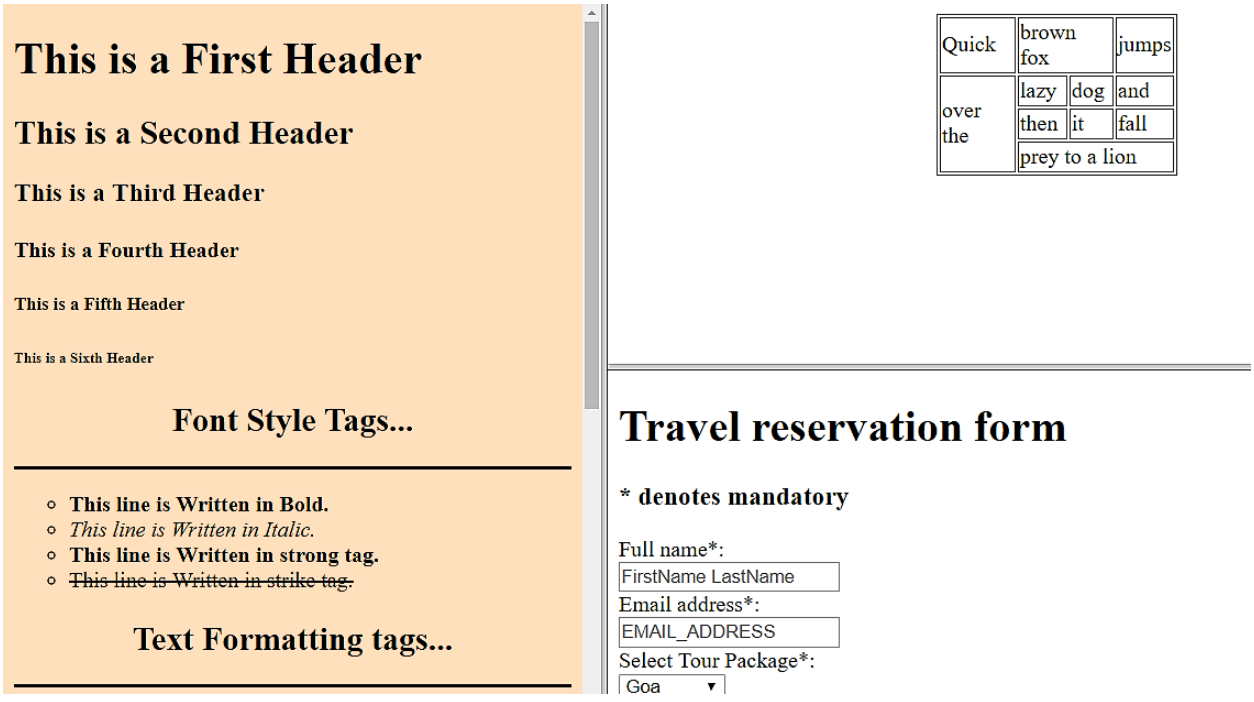
Full name*:
FirstName LastName
Email address*:
EMAIL_ADDRESS
Select Tour Package*:
Goa
Arrival date*:
mm/dd/yyyy
Number of persons*:
UNKNOWN_TYPE
What would you want to avail?*
Boarding
Foodding
Sight seeing
Discount Coupon code:
UNKNOWN_TYPE
Terms and conditions*
I agree I disagree
Complete reservation

PRACTICAL-2 (XHTML)

1. WAP in html which demonstrate <frameset> and <frame> Tag.

```
<!DOCTYPE html>
<html>
<head>
   <title>Program 2.1</title>
</head>
<frameset cols="40%,*">
   <frame src="program1_1.html"></frame>
   <frameset rows="50%,*">
      <frame src="program1_2.html"></frame>
      <frame src="program1_3.html"></frame>
   </frameset>
</frameset>
</html>
```

OUTPUT:



PRACTICAL-3 (CSS)

1) WAP which execute all three types of CSS.

- Internal CSS
- External CSS
- Inline CSS

- **style3_1.css**

```
p#external {
   font-family: 'Gigi', serif;
        font-size:xx-large ;
        text-decoration: wavy;
        color: teal;
        text-shadow: 2px 2px 2px;
}
```

- **program3_1.html**

```
<!DOCTYPE html>
<html>
<head>
   <title>Program 3.1</title>
   <style>
      p#internal{
         font-family: "Berlin Sans FB";
         font-size: 25px;
         font-style: italic;
         text-align: center;
         text-transform: uppercase;
      }
   </style>
   <link rel="stylesheet" href="style3_1.css">
</head>
<body>
<p style="font-family: 'Comic Sans MS';font-size: 15px;color:
                                                rebeccapurple;font-weight: bolder">
      This is Inline CSS Style </p>
```

```
    <p id="internal">This is Internal CSS Style</p>
    <p id="external">This is External CSS Style</p>
</body>
</html>
```

OUTPUT:

2) Create a CSS including following facilities.
- Background
- Text
- Font
- Border
- Margin
-Padding
-List
-Table

```
<!DOCTYPE html>

<html>
	<head>
		<title>Program 3.2</title>
		<style>
			table,th,tr,td{
				border: 1px solid;
				border-collapse: separate;
				font-family: "Comic Sans MS";
				color: firebrick;
			}
			table{
				margin: 50px auto;
			}
			th{
				font-size: 20px;
				text-shadow: 2px 2px 4px grey;
				background:lightseagreen;
			}
			td{
				font-size: 15px;
			}
			td,th{
				padding: 8px 12px;
				text-align: center;
			}
			tr:nth-child(even){
				background:  rgba(68,99,173,0.79);
			}
```

```
                tr:nth-child(odd){
                        background: skyblue;
                }
        </style>
</head>
<body>
        <table>
                <tr>
                        <th>Sr No.</th>
                        <th>Name</th>
                        <th>School</th>
                </tr>
                <tr>
                        <td>1</td>
                        <td>Pratik</td>
                        <td>VDVS</td>
                </tr>
                <tr>
                        <td>2</td>
                        <td>Sagar</td>
                        <td>G.M.</td>
                </tr>
                <tr>
                        <td>3</td>
                        <td>Divyesh</td>
                        <td>Dakshina</td>
                </tr>
                <tr>
                        <td>4</td>
                        <td>Shyam</td>
                        <td>S.P.</td>
                </tr>
                <tr>
                        <td>5</td>
                        <td>Harsh</td>
                        <td>B.M.</td>
                </tr>
```

```
                    <tr>
                        <td>6</td>
                        <td>Pinakin</td>
                        <td>B.M.</td>
                    </tr>
                </table>
            </body>
</html>
```

OUTPUT:

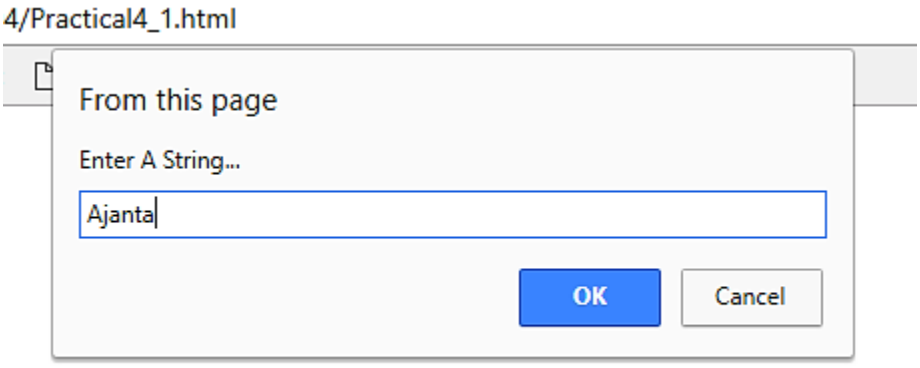
Sr No.	Name	School
1	Pratik	VDVS
2	Sagar	G.M.
3	Divyesh	Dakshina
4	Shyam	S.P.
5	Harsh	B.M.
6	Pinakin	B.M.

PRACTICAL-4 (JavaScript)

1) **Write an HTML file with Javascript that finds position of first occurrence of vowel "a", last occurrence of vowel "a" in a given word and returns the string between them. For example, ajanta- then script would return first occurrence of "a"-that is position 1 and last occurrence-6 and string between them is "jant".**

```
<!DOCTYPE html>
<html>
<head>
	<title>Practical 4.1</title>
</head>
<body>
	<script type="text/javascript">
		s = prompt("Enter A String...");
		st = s.toLowerCase();
		f = st.indexOf("a");
		document.write("First Occurance of vowel 'a' is at "+(f+1)+"th Position");
		document.write("<br>");
		ls = st.lastIndexOf("a");
		document.write("Last Occurance of vowel 'a' is at "+(ls+1)+"th Position");
		document.write("<br>");
		document.write( s.substring(f+1,l));
	</script>
</body>
</html>
```

OUTPUT:

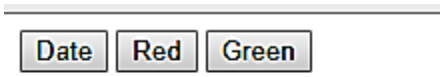


First Occurance of vowel 'a' is at 1th Position
Last Occurance of vowel 'a' is at 6th Position
jant

2) Write a JavaScript that handles following mouse events. Add necessary elements. (i) If findtime button is clicked show time and date information. (ii) If button named "red" is clicked, background should change to red and If button named "green" is clicked, background should change to green.

```
<!DOCTYPE html>
<html>
<head>
	<title>Practical 4.2</title>

	<script type="text/javascript">
		function f1(){
			alert(new Date());
		}
		function f2(){
			document.body.style.backgroundColor="red";
		}
		function f3(){
			document.body.style.backgroundColor="green";
		}
	</script>

</head>

<body>
	<input type="submit" value="Date" onclick="f1();">
	<input type="submit" value="Red" onclick="f2();">
	<input type="submit" value="Green" onclick="f3();">
</body>
</html>
```

OUTPUT:


Date
Red
Green


Date
Red
Green


Date
Red
Green

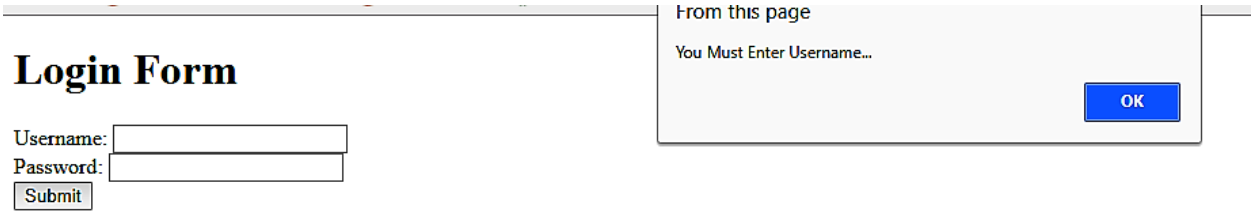

From this page
Sat Apr 07 2018 23:29:59 GMT+0530 (India Standard Time)
OK

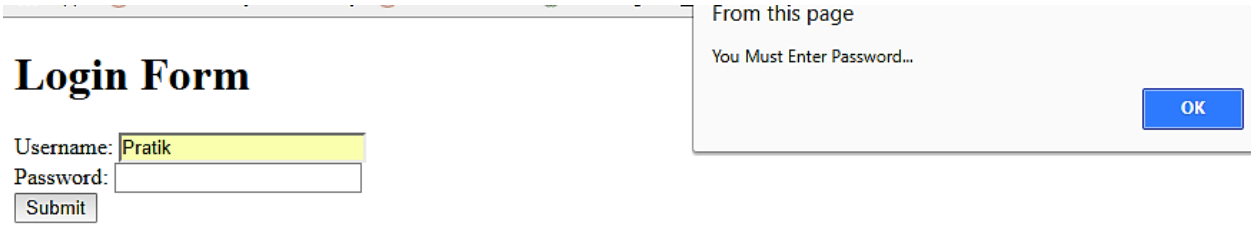
3) Design an login form using HTML and JavaScript with following validations on password field : minimum length 8 characters, it should have some special character.

```
<!DOCTYPE html>
<html>
<head>
	<title>Practical 4.3</title>
	<script type="text/javascript">
		function validate(form) {
			var username = form.Username.value;
			var password = form.Password.value;

			if (username.length === 0) {
				alert("You Must Enter Username...");
				return false;
			}
			if (password.length === 0) {
				alert("You Must Enter Password...");
				return false;
			}
			if (password.length<8) {
				alert("Password must be of 8 Characters...");
				return false;
			}
			if (password.indexOf("@")==-1) {
				alert("Password must have special character...");
				return false;
			}
			if (password.indexOf("$")==-1) {
				alert("Password must have special character...");
				return false;
			}
			if (password.indexOf("#")==-1) {
				alert("Password must have special character...");
				return false;
			}
			return true;
		}
	</script>
```

```
</head>
<body>
	<h1>Login Form</h1>
	<form method="POST" onsubmit="return validate(this);">
		Username: <input type="text" name="Username"><br>
		Password: <input type="password" name="Password"><br>
		<input type="submit" value="Submit">
	</form>
</body>
</html>
```

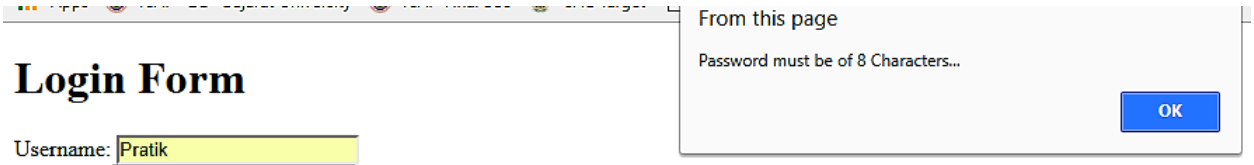
OUTPUT:





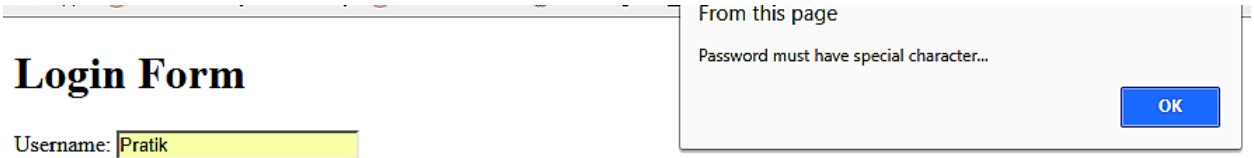
Login Form

Username: Pratik
Password:
Submit



Login Form

Username: Pratik
Password: ••••••
Submit



Login Form

Username: Pratik
Password: ••••••••••••••••
Submit

PRACTICAL-5 (XML)

1) **Create xml DTD file for Bank Account Holders (Account holder name, Account number, Bank branch, IfSC code) and apply CSS to all the attributes of Bank Account Holder.**

Practical5_1.dtd

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT BANK(ACCOUNT)*>
<!ELEMENT ACCOUNT(Acc_name,Acc_no,Branch,IFSC_no)>
<!ELEMENT Acc_name(#PCDATA)>
<!ELEMENT Acc_no(#PCDATA)>
<!ELEMENT Branch(#PCDATA)>
<!ELEMENT IFSC_no(#PCDATA)>
```

Practical5_1.css

```
BANK{
   font-family: Arial, Helvetica, sans-serif;
   color: brown;
   font-size: 16pt;
}
ACCOUNT{
   margin-top: 22pt ; margin-left: 20pt;
   display: block;
   font-family: Verdana, Geneva, Tahoma, sans-serif;
   color: cornflowerblue;
   font-size: 14pt;
}
Acc_name{
   display: block;
   font-family: 'Times New Roman', Times, serif;
   color: lightcoral;
   font-size: 14pt;
}
```

```
Acc_no{
   font-size: 12pt;
   font-family: 'Times New Roman', Times, serif;
   color: mediumturquoise;
}
Branch,IFSC_no{
   display: block;
   font-family: 'Times New Roman', Times, serif;
   color: black;
   font-size: 10pt;
   margin-left: 20pt;
}
```

Practical5_1.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="Practical5_1.css"?>
<!DOCTYPE BANK SYSTEM "Practical5_1.dtd">
<BANK>
   <ACCOUNT>
      <Acc_name>Harvey Specter</Acc_name>
      <Acc_no>64132318612</Acc_no>
      <Branch>Queens</Branch>
      <IFSC_no>KDLD6984235</IFSC_no>
   </ACCOUNT>
   <ACCOUNT>
      <Acc_name>Mike Ross</Acc_name>
      <Acc_no>61323946654</Acc_no>
      <Branch>Manhattan</Branch>
      <IFSC_no>PFDJ3287456</IFSC_no>
   </ACCOUNT>
   <ACCOUNT>
      <Acc_name>Jessica Pearson</Acc_name>
      <Acc_no>34844354646</Acc_no>
      <Branch>Brooklyn</Branch>
      <IFSC_no>NFKS9536412</IFSC_no>
   </ACCOUNT>
```

```
  <ACCOUNT>
    <Acc_name>Rachel Zane</Acc_name>
    <Acc_no>66439465465</Acc_no>
    <Branch>29th Street</Branch>
    <IFSC_no>IEJS5605461</IFSC_no>
  </ACCOUNT>
</BANK>
```

OUTPUT:

Harvey Specter
64132318612
Queens
KDLD6984235

Mike Ross
61323946654
Manhattan
PFDJ3287456

Jessica Pearson
34844354646
Brooklyn
NFKS9536412

Rachel Zane
66439465465
29th Street
IEJS5605461

2) Create XML Schema file For Student (Name, Address, Standard, Percentage).

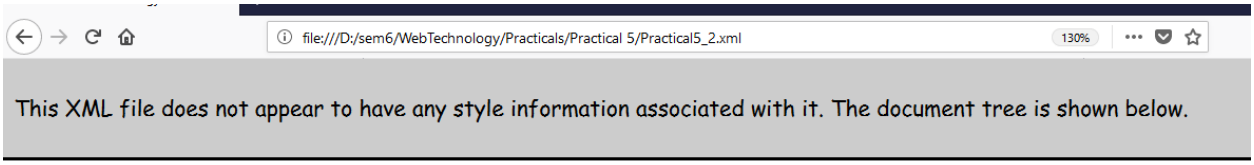
Practical5_2.xsd

```
<?xml version="1.0"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
	<xs:element name="Student">
		<xs:complexType>
			<xs:sequence>
				<xs:element name="Name" type="xs:string"/>
				<xs:element name="Address" type="xs:string"/>
				<xs:element name="Std" type="xs:string"/>
				<xs:element name="Per" type="xs:decimal"/>
			</xs:sequence>
		</xs:complexType>
	</xs:element>
</xs:schema>
```

Practical5_2.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<Student xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
                                        xsi:noNamespaceSchemaLocation="Practical5_2.xsd">
	<Name>Elena Gilbert</Name>
	<Address>Mysticfalls</Address>
	<Std>12</Std>
	<Per>87.55</Per>
</Student>
```

OUTPUT:


file:///D:/sem6/WebTechnology/Practicals/Practical 5/Practical5_2.xml
130%
This XML file does not appear to have any style information associated with it. The document tree is shown below.
- <Student xsi:noNamespaceSchemaLocation="Practical5_2.xsd">
<Name>Elena Gilbert</Name>
<Address>Mysticfalls</Address>
<Std>12</Std>
<Per>87.55</Per>
</Student>

PRACTICAL-6 (PHP)

1) **Write module using HTML and PHP to store information of employee (employee id, job title, year of experiences) in an array. And output the data in webpage by arranging the employees in ascending order of experience.**

Practical6_1.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Practical 6.1</title>
</head>
<body>
   <form method="POST" action="http://localhost/wt_prac/Practical6_1.php">
      <p>Enter Employee ID</p>
         <input name="empID[]" size="5" type="text">
         <input name="empID[]" size="5" type="text">
         <input name="empID[]" size="5" type="text">
         <input name="empID[]" size="5" type="text">
      <p>Enter Job Title</p>
         <input name="jobTitle[]" size="20" type="text">
         <input name="jobTitle[]" size="20" type="text">
         <input name="jobTitle[]" size="20" type="text">
         <input name="jobTitle[]" size="20" type="text">
      <p>Enter Years of Experience</p>
         <input name="yrsExp[]" size="2" type="text">
         <input name="yrsExp[]" size="2" type="text">
         <input name="yrsExp[]" size="2" type="text">
         <input name="yrsExp[]" size="2" type="text">
```

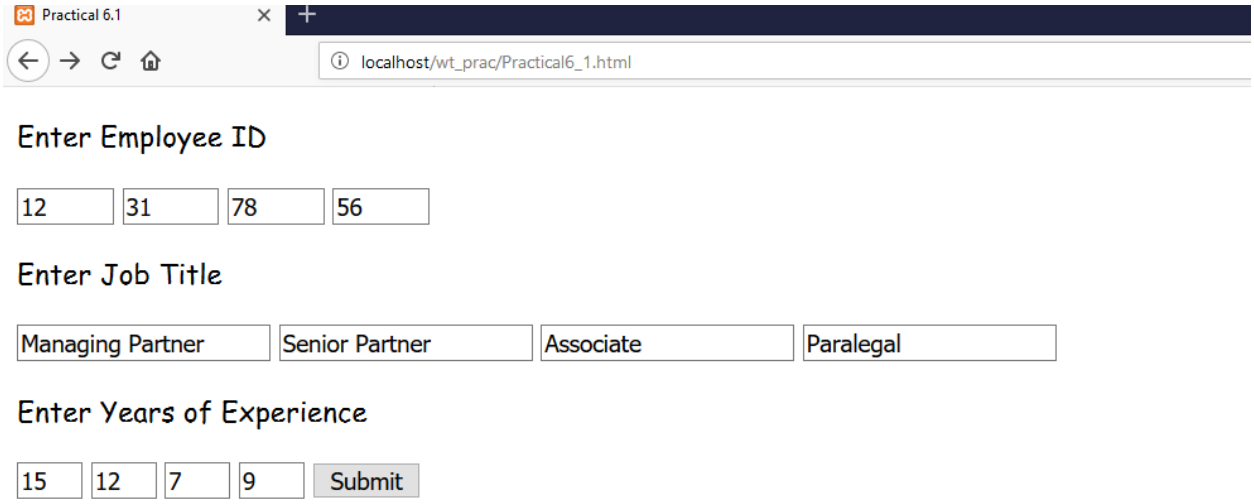
```
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

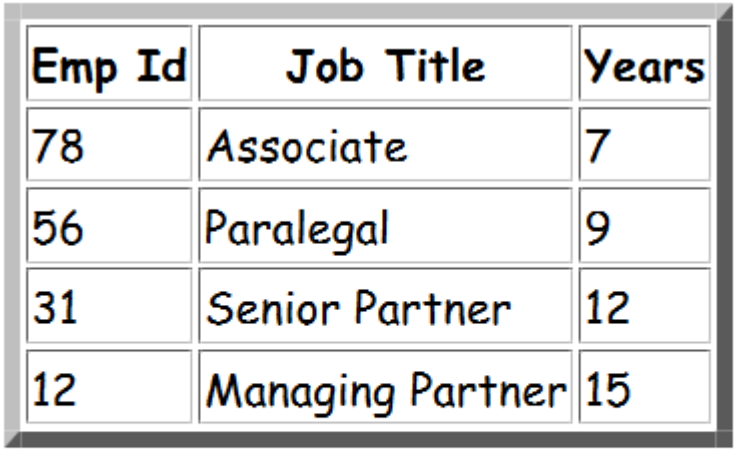
Practical6_1.php

```
<html>
<head>
  <title>Employee List</title>
</head>
<body>
  <table border="6" align="center">
    <tr>
      <th>Emp Id</th>
      <th>Job Title</th>
      <th>Years</th>
    </tr>
    <?php
      $empID = $_POST['empID'];
      $jobTitle = $_POST['jobTitle'];
      $array = $_POST['yrsExp'];
      $array = array_map(create_function('$value','return (int)$value;'),$array);
      $arr = array();
      for ($i=0; $i < count($empID); $i++) {
        $arr[$i]['id']=$empID[$i];
        $arr[$i]['title']=$jobTitle[$i];
        $arr[$i]['years']=$array[$i];
      }
```

```
        $result = sortTwoDArray($arr,'years');

        function sortTwoDArray($arr,$arrKey,$sortOrder=SORT_ASC)
        {
            foreach ($arr as $key => $row) {
                $key_arr[$key] = $row[$arrKey];
            }
            array_multisort($key_arr,$sortOrder,$arr);
            return $arr;
        }

        for ($i=0; $i < count($empID); $i++) {
            print "<tr>";
            print "<td>";
            echo $result[$i]['id'];
            print "</td>";
            print "<td>";
            echo $result[$i]['title'];
            print "</td>";
            print "<td>";
            echo $result[$i]['years'];
            print "</td>";
            print "</tr>";
        }
    ?>
  </table>
</body>
</html>
```

OUTPUT:





Emp Id	Job Title	Years
78	Associate	7
56	Paralegal	9
31	Senior Partner	12
12	Managing Partner	15

2) Write PHP programs

1. To print whether current year is leap year or not.

2. To print whether given number is odd or even.

1. Practical6_2_1.php

```
<html>
<head>
   <title>Leap Year Demo</title>
</head>
<body>
   <?php
      $year = 2018;
      print "<br>";
      if($year % 4 == 0)
         {printf("Year %d is a leap year...",$year);}
      else
         {printf("Year %d is not a leap year...",$year);}
   ?>
</body>
</html>
```

OUTPUT:

Year 2018 is not a leap year...

2. Practical6_2_1.php

```
<html>
<head>
   <title>Even Odd Demo</title>
</head>
<body>
   <?php
      for ($i=1; $i <= 10; $i++) {
         $num = $i;
         print "<br>";
         if ($num % 2 == 1) {
            printf("Number %d is Odd...",$num);
         } else {
            printf("Number %d is Even...",$num);
         }
      }
   ?>
</body>
</html>
```

OUTPUT:

Number 1 is Odd...
Number 2 is Even...
Number 3 is Odd...
Number 4 is Even...
Number 5 is Odd...
Number 6 is Even...
Number 7 is Odd...
Number 8 is Even...

3) Create a database called country and create table called city having fields (city name, area, population) using PHP commands. Create an HTML form to get the city data and write a script to insert data into the table.

Practical6_3.html

```
<!DOCTYPE html>
<html>
<head>
   <title>Insert Data</title>
</head>
<body>
   <form method="POST" action="http://localhost/wt_prac/Practical6_3.php">
      <table align="center" border="3">
         <tr>
            <td>City Name:</td>
            <td><input type="text" name="Name"></td>
         </tr>
         <tr>
            <td>City Area:</td>
            <td><input type="text" name="Area"></td>
         </tr>
         <tr>
            <td>City Population:</td>
            <td><input type="text" name="Population"></td>
         </tr>
         <tr>
            <td colspan="2" align="center"><input type="submit" value="Submit"></td>
         </tr>
```

```
    </table>
  </form>
</body>
</html>
```

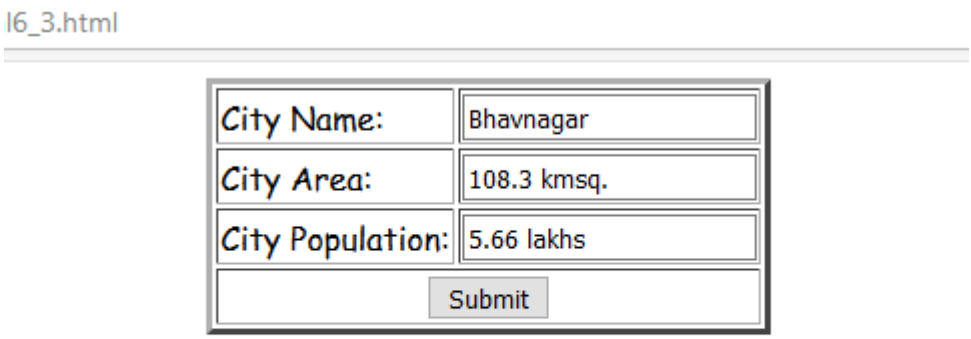
Practical6_3.php

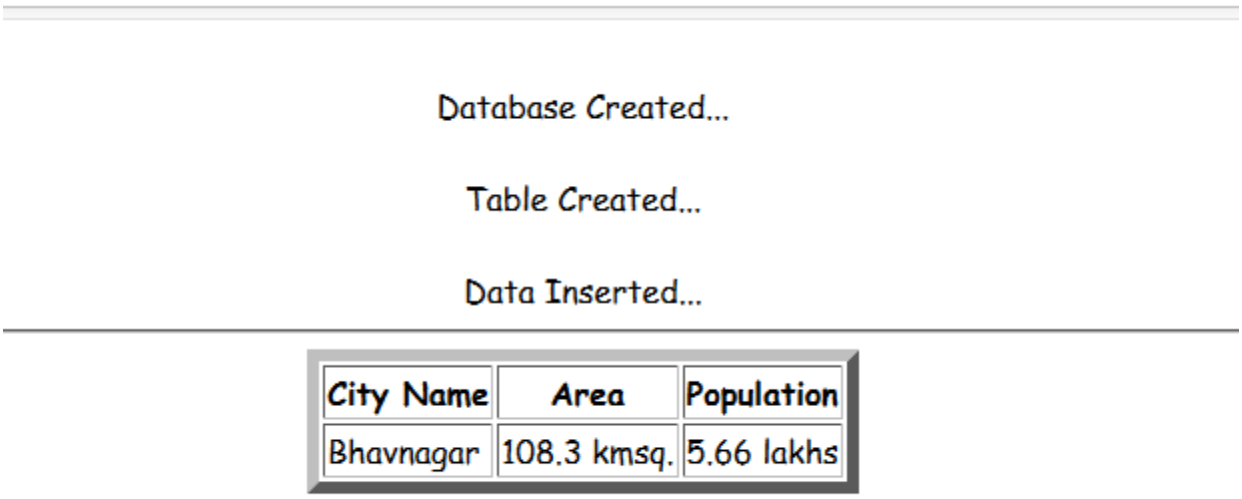
```
<html>
<head>
  <title>City Data</title>
</head>
<body>
  <table border="6" align="center">
    <tr>
      <th>City Name</th>
      <th>Area</th>
      <th>Population</th>
    </tr>
    <?php
      $conn = mysql_connect("localhost","root","");
      if (!$conn) {
        die('<center><br>error in connection'.mysql_error().'</center>');
      }

      if (mysql_query("CREATE DATABASE country",$conn)) {
        print "<center><br>Database Created...</center>";
      } else {
        print "<center><br>Error creating database:".mysql_error()."</center>";
      }
```

```
mysql_select_db("country",$conn);
$query = "CREATE TABLE city(cityname VARCHAR(20),
                                    area VARCHAR(20),population VARCHAR(20))";
if (mysql_query($query,$conn)) {
   print "<center><br>Table Created...</center>";
} else {
   print "<center><br>Error creating table :".mysql_error()."</center>";
}

$query = "INSERT INTO city
                    VALUES('$_POST[Name]','$_POST[Area]','$_POST[Population]')";
mysql_query($query,$conn);

print "<center><br>Data Inserted...</center><hr>";

$result = mysql_query("SELECT * FROM city");
while ($row = mysql_fetch_array($result)) {
   print "<tr>";
   print "<td>";
   echo $row['cityname'];
   print "</td>";
   print "<td>";
   echo $row['area'];
   print "</td>";
   print "<td>";
   echo $row['population'];
   print "</td>";
   print "</tr>";
```

```
        }
        mysql_close($conn);
    ?>
  </table>
</body>
</html>
```

OUTPUT:





Practical6_3.php

Error creating database:Can't create database 'country'; database exists

Error creating table :Table 'city' already exists

Data Inserted...

City Name	Area	Population
Bhavnagar	108.3 kmsq.	5.66 lakhs
Ahmedabad	464.165 kmsq.	56.33 lakhs
Mumbai	603.4 kmsq.	1.84 crores
Kolkata	205.00 kmsq.	45 lakhs
Shanghai	6341.00 kmsq.	2.42 crores
Tokyo	2187.66 kmsq.	1.36 crores
New York	468.484 kmsq.	81.75 lakhs