//program1: simple AJAX program to demonstrate accessing simple text file.
//simple.html

```html
<html>
<body>

<div>
<h1>The XMLHttpRequest Object example</h1>
<button type="button" onclick="loadDoc()">display Content</button>
</div>
   <p id="demo"> display content here</p>
<script>
function loadDoc() {
  var xhttp = new XMLHttpRequest();
  xhttp.onreadystatechange = function() {
   if (this.readyState == 4 && this.status == 200) {
     document.getElementById("demo").innerHTML =
     this.responseText;
    }
  };
  xhttp.open("GET", "ajax-text", true);
  xhttp.send();
}
</script>
</body>
</html>
```

//ajax-text file
```html
<h1>Information about AJAX:</h1>
<br>
<p><b><i>AJAX</i> is Asynchronous JavaScript And XML</b></p>
```

//ajax with JSP program.
//login authentication.
//login.html

```html
<html>
        <head>
                <title>Login Now</title>

<script language="javascript">
function validate()
{
```

```
var user=document.login.uname.value;
var pwd=document.login.pwd.value;
var url="dbauth.jsp?u="+user+"&p="+pwd;

var obj;
if(window.XMLHttpRequest)
{
        obj=new XMLHttpRequest();

}
else
{
        obj=new ActiveXObject('Microsoft.XMLHTTP');

}
obj.open("GET",url,true);
obj.send();

obj.onreadystatechange=function()
{

if(this.readyState==4 && this.status==200){

 document.getElementById("success").innerHTML="<font
color=red>"+obj.responseText+"</font>";
}
}
}
</script>
</head>
<body>
<div class="loginbox">
        <h3>Login</h3>
                <form name="login" method="GET">
                                username:
                        <input type="text" name="uname"><br>
                                Password:
                        <input type="password" name="pwd"><br>
                                <input type="button" value="submit" onclick="validate()">

                </form>
<span id="success"></span>
</div>
</body>
</html>
```

```jsp
//dbauth.jsp
<% @page contentType="text/html"
    pageEncoding="UTF-8"
    import="java.io.*"
    import="javax.servlet.*"
    import="javax.servlet.http.*"
    import="java.sql.*"
    %>
<!DOCTYPE html>
<html>
   <head>
     <title>Login</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">

   </head>
   <body bgcolor="gray">
   <%
     String user=request.getParameter("u");
     String pass=request.getParameter("p");

     if(user!=null){
     try{

        Class.forName("com.mysql.jdbc.Driver");
Connection con = DriverManager.getConnection ("jdbc:mysql://localhost:3306/csea" ,"root", ""
);

PreparedStatement pst=con.prepareStatement("select uname,Pwd from login where uname=? and
Pwd=?");
        pst.setString(1,user);
        pst.setString(2,pass);

        ResultSet rs=pst.executeQuery();
        if(rs.next())
           out.println("Login Successful");
        else
            out.println("Login Failed");
     }
     catch(ClassNotFoundException e)
     {
       e.printStackTrace();
     }
      catch (SQLException e)
     {
      e.printStackTrace();
```

```
        }
      }
      %>
    </body>
</html>
```

```
//ajax with servlet
//username validation and checking in database whether username already exist or not
//uservalid.html

<html>
        <head>
                <title>simple ajax program with servlet</title>

<script language="javascript">
    function chkuname()
    {

        var user=document.reg.uname.value;
        var url="chk2?un="+user;
        var rename=/^[a-zA-Z]\w/;
 alert(url);
if ((user==null || user=="")) {
  document.getElementById("u").innerText="Name can't be blank";
  document.reg.uname.focus();

  return false;
}
else if(!rename.test(user))
{
  document.getElementById("u").innerText="Name can't be start with num";

  document.reg.uname.focus();
  document.reg.uname.value="";
  return false;
}
else{

var obj;
if(window.XMLHttpRequest)
{
        obj=new XMLHttpRequest();

}
else
```

```
{
        obj=new ActiveXObject('Microsoft.XMLHTTP');

}
alert(obj);
//obj.open("POST","dbauth.jsp?u="+user+"&p="+pwd,true);
obj.open("POST",url,true);

obj.send();

obj.onreadystatechange=function()
{

if(this.readyState==4 && this.status==200){

 document.getElementById("u").innerHTML=obj.responseText;

}
}}
    }
function display()
{
   alert("display function");
   }
</script>

</head>

<body>
<center>
<div class="registration page">
<h3>Login</h3>
<form name="reg" method="POST">
<div>username:
<input type="text" name="uname" onblur="chkuname()">
<div id="u"></div></div><br>
<input type="button" value="check" onclick="display()">
</form>
<span id="disp"></span>
</div>
</center>
</body>
</html>
```

//chk2.java(servlet program)

```java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
import javax.sql.*;

public class chk2 extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try {
            PrintWriter out = response.getWriter();
            String username=request.getParameter("un");
            Class.forName("com.mysql.jdbc.Driver");
Connection con = DriverManager.getConnection ("jdbc:mysql://localhost:3306/csea" ,"root", ""
);

PreparedStatement pst=con.prepareStatement("select uname from login where uname=?");
        pst.setString(1,username);


        ResultSet rs=pst.executeQuery();
        if(rs.next())
           out.println("user name exists..");
        else
            out.println("new user name..proceed");
    }
    catch(Exception e)
    {

    }
}


    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        processRequest(request, response);
    }


    @Override
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
      processRequest(request, response);
    }

    @Override
    public String getServletInfo() {
      return "Short description";
    }// </editor-fold>


}
```

Aim: A user validation web application, where the user submits the login name and password to the server. The name and password are checked against the data already available in the database and if the data matches, a successful login page is returned. Otherwise a failure message is shown to the user. Use AJAX and PHP.

File Name: Ajaxphp.html

Source code:

```
<html>
        <head>
                <title>Login Now</title>
<style type="text/css">
body{
    margin:0;
    padding:0;
    background:url("C:\Users\Admin\Desktop\2.jpg");
    background-size:cover;
    font-family: sans-serif;
    align: center;
    }
.loginbox
    {
        position: absolute;
        top: 10%;
        left: 50%;
        transform: translate(-50%,-50%);
        width: 320px;
        height:420px;
        box-sizing: border-box;
        background-color: rgba(255, 255, 255, 0.3);
        filter:
progid:DXImageTransform.Microsoft.gradient(GradientType=0,startColorstr='#4cffffff',
endColorstr='#4cffffff');
        margin : 0 auto;
```

```
        margin-top: 40px;
        font-weight: bolder;
    }
.loginbox p{
     margin: 0;
     padding: 0;
     font-weight: bold;
     color: #fff;
   }
h2{
     margin: 0;
     padding: 0 0 20px;
     color: #efed40;
     text-align: center;
   }
</style>
<script language="javascript">
function validate()
{
var user=document.login.uname.value;
var pwd=document.login.pwd.value;
var obj;
if(window.XMLHttpRequest)
{
        obj=new XMLHttpRequest();
}
else
{
        obj=new ActiveXObject('Microsoft.XMLHTTP');
}
obj.open("POST","check.php?u="+user+"&p="+pwd,true);
obj.send();
obj.onreadystatechange=function()
{
if(obj.readyState==4 && obj.status==200){
 document.getElementById("success").innerHTML=obj.responseText;
}
}
}
</script>
</head>
<body>
<div class="loginbox">
        <h3>Login</h3>
                <form name="login" method="POST" onclick="validate()">
                        <p>username</p>
```

```
                                    <input type="text" name="uname">
                                    <p>Password:</p>
                                    <input type="password" name="pwd">
                                    <input type="button" value="submit">
                    </form>
<span id="success"></span>
</div>
</body>
</html>
```

File Name: Check.php
Source code:

```php
<?php
$user=$_REQUEST["u"];
$pass=$_REQUEST["p"];
mysql_connect("localhost:3306","root","password");
mysql_select_db("divya");
$res=mysql_query(" select * from users where name='$user' and password='$pass' ");
if(mysql_num_rows($res)==1)
{
        echo "you have sucessfully logged in";
}
else
{
        echo "wrong credentials";
}
?>
```