**4) Java Script & XML**

**4.1) Write a JavaScript to validate the following fields in a registration page created in week 2**

**a. Name (start with alphabet and followed by alphanumeric and the length should not be less than 6 characters)**

**b. Password (it allows alphanumeric, special symbols and should not be less than 6 characters)**

**c. E-mail (should not contain invalid email addresses)**

<html>

<head><h1 align=center>Welcome to Validation

Checking</h1><hr width=50%>

<script language="javascript">

function validation()

{

var x=f.un.value;var len=x.length;

var val=x.charCodeAt(0); var p=f.pw.value;

var c=f.cpw.value;var a=f.email.value;

var atpos=a.indexOf("@");var dotpos=a.lastIndexOf(".");

if(len<6||x==""||x==null)

{

alert("check your username! must be minimum 6 characters");

}

else if(val<65 || val>90&&val<97 || val>122)

{

alert("username must be begin with an alphabet");

return fasle;

}

else if(p==" || c==" || p.length<6 || c.length<6 || p!=c)

{

alert("password and confirm password should be same and greater than 6 characters!");

return false;

}

else if(atpos<6 || dotpos<atpos+6 || dotpos+2>=a.length)

{

alert("Not a Valid email id");

return false;

}

else

alert("Congratulations!you have submitted successfully");

}

</script>

</head>

<body>

<table align=center border=I>

<form name="f" action="success.html" onsubmit="return validation();" method="post">

<tr><td>User Name:</td>

<td><input type="text" name="un"/></td></tr>

<tr><td>Password:</td>

<td><input type="password" name="pw"/></td></tr>

<tr><td>Confirm Password:</td>

<td><input type="password" name="cpw"/></td></tr>

<tr><td>E-mail ID:</td>

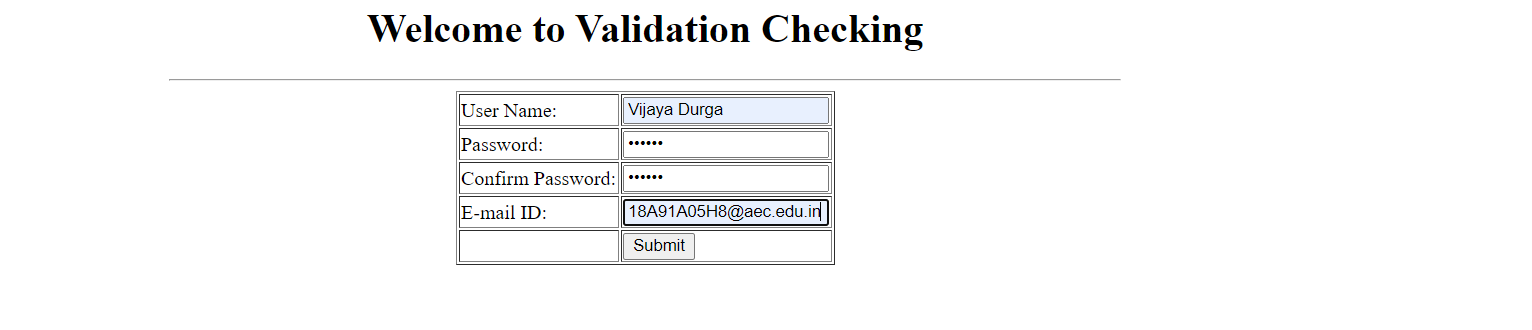
<td><input type="text" name="email"/></td></tr>

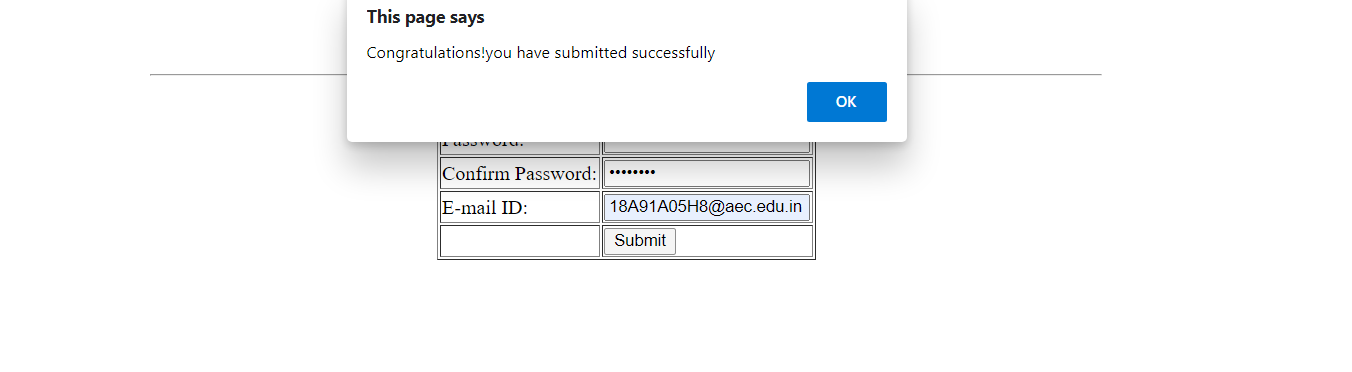
<tr><td></td>

<td><input type="Submit" name="Submit"/></td></tr>

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

**OUTPUT:**





**4.2) Write an XML file which will display the Book information which includes the following:**

**a) Title of the book ;b) Author Name ;c) ISBN number ;d) Publisher name**

**e) Edition ;f) Price**

**Write a Document Type Definition (DTD) to validate the above XML file and display the details in a table (to do this use XSL).**

**Book.dtd:**

<!ELEMENT bookdetails(books+)>

<!ELEMENT books(title,author,isbn,publisher,edition,price)>

<!ELEMENT title(#PCDATA)>

<!ELEMENT author(#PCDATA)>

<!ELEMENT isbn(#PCDATA)>

<!ELEMENT publisher(#PCDATA)>

<!ELEMENT edition(#PCDATA)>

<!ELEMENT price(#PCDATA)>

**Book.xml:**

<?xml version="1.0"?>

<!DOCTYPE bookdetails SYSTEM "book.dtd">

<?xml-stylesheet type="text/xsl" href="book.xsl"?>

<bookdetails>

<books>

<title>C</title>

<author>Balaguruswamy</author>

<isbn>123456</isbn>

<publisher>Oxford</publisher>

<edition>Edition-II</edition>

<price>$30.00</price>

</books>

<books>

<title>C++</title>

<author>yaswanth kanethkar</author>

<isbn>654321</isbn>

<publisher>Tata McHill</publisher>

<edition>Edition-I</edition>

<price>$35.00</price>

</books>

<books>

<title>JAVA</title>

<author>Herbert Schildt</author>

<isbn>789456</isbn>

<publisher>Cenage</publisher>

<edition>Edition-IV</edition>

<price>$50.00</price>

</books></bookdetails>

**Book.xsl:**

<?xml version="1.0"?>

<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">

<html>

<head><center>Book Details</center></head>

<body>

<hr width="50%"/>

<table border="1" align="center">

<tr>

<th>TITLE</th>

<th>AUTHOR</th>

<th>ISBN</th>

<th>PUBLISHER</th>

<th>EDITION</th>

<th>PRICE</th>

</tr>

<xsl:for-each select="bookdetails/books">

<tr>

<td><xsl:value-of select="title"/></td>

<td><xsl:value-of select="author"/></td>

<td><xsl:value-of select="isbn"/></td>

<td><xsl:value-of select="publisher"/></td>

<td><xsl:value-of select="edition"/></td>

<td><xsl:value-of select="price"/></td>

</tr>

</xsl:for-each>

</table></body></html></xsl:template>

</xsl:stylesheet>a

**OUTPUT:**

