WEB TECHNOLOGIES LAB

WEEK - 1&2

Aim: Design static web pages for home page that includes hyperlinks for registration page, login page and forgot password pages. Use form elements to create required web pages for the applications considered.

Program:

</html>

week_1,2.html:

<!DOCTYPE html>

```
<html>
    <head>
        <title>WEEK 1 AND 2</title>
    </head>
    <frameset rows="30%,70%">
        <frame src="top.html" scrolling=no >
        <frameset cols="20%,80%">
            <frame src="left.html" >
            <frame name="right" src="right.html" >
        </frameset>
    </frameset>
</html>
top.html:
<!DOCTYPE html>
<html>
    <head>
        <link href="top styles.css" rel="stylesheet">
        <title></title>
    </head>
    <body>
        <div class="grid-container" style="display:flex;">
            <div>
                <img src="logo.jpg" width="200px" height="200px">
            </div>
            <div class="heading">
                <h1>GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)</h1>
            </div>
        </div>
    </body>
```

left.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <link href="left styles.css" rel="stylesheet">
   <title>Document</title>
</head>
<body>
   \langle t.r \rangle
        <a href="login.html" target="right">Login </a>
        <t.r>
            <a href="registration.html" target="right">Registration</a>
         <a href="contact.html" target="right">Contact </a>
        </body>
</html>
right.html:
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
```

```
The Gayatri Vidya Parishad College of Engineering or GVPCE is a private
        college established in the year 1996. The educational trust,
         Gayatri Vidya Parishad is formed, managed and promoted by academicians and
         technocrats in Visakhapatnam, India. The Gayatri Vidya Parishad College of
Engineering [GVPCE]
       had its humble beginning in December 1996 with 4 branches
        and 200 intake established under the parent society
        'Gayatri Vidya Parishad' (GVP), a non-profitable organization comprising
        of noted educationists and eminent philanthropists who have a missionary
        zeal to provide quality technical education. From that point on, the college
       has very quickly established itself as one of the most-preferred self-financing
        engineering colleges in Andhra Pradesh offering 10 B.Tech. Programs, 9 M.Tech.
and
       one MCA Program approved by AICTE with an intake of 1362.
    </div>
    </div>
</body>
</html>
login.html:
<!DOCTYPE html>
<html>
    <head>
        <link rel="preconnect" href="https://fonts.googleapis.com">
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
        <link href="https://fonts.googleapis.com/css2?family=Merriweather&display=swap"</pre>
rel="stylesheet">
        <link href="login_registration_styles.css" rel="stylesheet">
    </head>
    <body>
        <h2>Login Page</h2>
        <form>
            <div class="grid-container">
                <label class="label" for="fname">Username :</label>
                <input class="label" type="text" id="fname" name="fname" value="John">
            <div class="grid-container">
                <label class="label" for="lname">Password :</label>
                <input class="label" type="password" id="lname" name="lname"</pre>
value="*****">
            </div>
          </form>
          <div class="buttons">
            <button class="button" type="button" >SUBMIT</button><br>
```

```
<head>
        <link rel="preconnect" href="https://fonts.googleapis.com">
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
        <link href="https://fonts.googleapis.com/css2?family=Merriweather&display=swap"</pre>
rel="stylesheet">
        <link href="login registration styles.css" rel="stylesheet">
    </head>
    <body>
        <h2>Registration Page</h2>
        <form>
            <div class="grid-container">
                <label class="label" for="fname">Username :</label>
                <input class="label" type="text" id="fname" name="fname" value="John">
            <div class="grid-container">
                <label class="label" for="lname">Password :</label>
                <input class="label" type="password" id="lname" name="lname"</pre>
value="*****">
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Confirm Password :</label>
                <input class="label" type="password" id="lname" name="lname"</pre>
value="*****">
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Email-id :</label>
                <input class="label" type="email" id="lname" name="lname" >
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Mobile number :</label>
                <input class="label" type="number" id="lname" name="lname"</pre>
value="*****">
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Date of birth :</label>
                <input class="label" type="date" id="lname" name="lname"</pre>
value="*****">
            </div>
```

<div class="grid-container">

```
<label class="label" for="lname">Address :</label>
                <input class="label" type="text" id="lname" name="lname" >
            </div>
            <div class="grid-container">
                <label class="label">Gender</label>
                <div class="label">
        <input name="gender" type="radio"><label>Male</label>
        <input name="gender" type="radio"><label>Female</label>
        </div>
            </div>
          </form>
          <div class="buttons">
            <button class="button" type="button" >SUBMIT</button><br>
        </div>
    </body>
</html>
forgot password.html:
```

```
<!DOCTYPE html>
<html>
    <head>
        <link rel="preconnect" href="https://fonts.googleapis.com">
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
        <link href="https://fonts.googleapis.com/css2?family=Merriweather&display=swap"</pre>
rel="stylesheet">
        <link href="login registration styles.css" rel="stylesheet">
    </head>
    <body>
        <h2>Reset your password here</h2>
        <form>
            <div class="grid-container">
                <label class="label" for="fname">New Password :</label>
                <input class="label" type="password" id="fname" name="fname"</pre>
value="*****">
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Confirm Password :</label>
                <input class="label" type="password" id="lname" name="lname"</pre>
value="*****">
            </div>
          </form>
          <div class="buttons">
            <button class="button" type="button" >Reset Password</button><br>
        </div>
    </body>
</html>
```

contact.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link href="contact styles.css" rel="stylesheet">
    <title>Document</title>
</head>
<body>
    <div>
        <div>
            <h2>Contact info</h2>
                Phone: <a href="tel:+91 9390662827">+91 9390662827</a>
                Email : <a
href="mailto:19131a05m3@gvpce.ac.in">19131a05m3@gvpce.ac.in</a>
            </div>
       </div>
        <div>
            <h2>
               Address
            </h2>
            <div>
                GVPCE<br/>Gandhi Nagar,<br/>Madhurawada,<br/>Visakhapatnam,<br/>br>
Andhra Pradesh. <br/>
Pincode - 530048 
           </div>
       </div>
    </div>
</body>
</html>
```

Main page:



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)

Login Registration Contact



About GVPCE

The Gayatri Vidya Parishad College of Engineering or GVPCE is a private college established in the year 1996. The educational trust, Gayatri Vidya Parishad is formed, managed and promoted by academicians and technocrats in Visakhapatnam, India The Gayatri Vidya Parishad College of Engineering [GVPCE] had its humble beginning in December 1996 with 4 branches and 200 intake established under the parent society 'Gayatri Vidya Parishad'(GVP), a non-profitable organization comprising of noted educationists and eminent philanthropists who have a missionary zeal to provide quality technical education. From that point on, the college has very quickly established itself as one of the most-preferred self-financing engineering colleges in Andhra Pradesh offering 10 B.Tech. Programs, 9 M.Tech. and one MCA Program approved by AICTE with an intake of 1362.

Login page:



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)

Login Registration	Login Page
Contact	Username : John Password : ••••• SUBMIT Forgot Password

Registration page:



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)

Login Registration

Registration Page	
Username : John Password :	
Confirm Password : •••••	
Email-id:	
Mobile number :	
Date of birth : dd-mm-yyyy	
Address :	
Gender	
○ Male ○ Female SUBMIT	

Forgot Password Page :



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)

Login Registration Contact	Reset your password here New Password: Confirm Password: Reset Password

Contact page:

COLLEGE OF COUNTY OF COUNT

GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)

Login Registration Contact

Contact info

Phone: <u>+91 9390662827</u>

Email: 19131a05m3@gvpce.ac.in

Address

GVPCE Gandhi Nagar, Madhurawada, Visakhapatnam, Andhra Pradesh. Pincode - 530048

WEEK - 3

Aim: Apply styles using CSS to the web pages designed in Week 1 & 2.

Program:

top_styles.css:

```
.grid-container{
    display: grid;
    grid-template-columns: 30% 70%;
}
body{
    height: 100vh;
}
.heading{
    text-align:center;
    margin:auto;
}
```

left_styles.css:

```
body{
    background-color: rgb(255, 255, 255);
}
td{
    background-color: rgb(11, 30, 56);
    padding: 2%;;
    border-bottom: 0.1rem solid white;
```

```
font-size: 18px;
}
a {
    color:rgb(255, 255, 255);
    text-decoration: none !important;
}
right_styles.css:
.grid-container{
    display: grid;
    grid-template-columns: 40% 60%;
    padding: 5%;
.about{
   padding: 2%;
}
about h2{
    text-decoration: underline;
    text-align: center;
}
.about-image{
    display: flex;
    text-align: center;
}
.about-image img{
    margin: auto;
}
login_resgitration_styles.css:
.grid-container{
    width:100%;
    display: grid;
    grid-template-columns: 50% 50%;
    padding: 5%;
}
.label{
    font-size: 15px;
    font-family: 'Merriweather', serif;
}
.buttons{
    padding: 2%;
    display: grid;
justify-content: center;
align-items: center;
```

```
}
.button{
    cursor: pointer;
    font-size: 20px;
   background-color: rgb(255, 255, 255);
   border-radius: 5%;
   border: solid rgb(11, 30, 56);
    color:rgb(11, 30, 56);
}
.button:hover{
   background-color: rgb(11, 30, 56);
    color:white;
.button1{
    cursor: pointer;
    text-decoration: underline;
   font-size: 15px;
   background-color: white;
   border: none;
    font-family: 'Merriweather', serif;
.button1:hover{
  font-weight: bold;
h2{
   text-align:center;
}
form{
    display: grid;
justify-content: center;
align-items: center;
}
contact_styles.css:
р{
    font-size: 18px;
a {
   color:black !important;
}
body{
  text-align: center;
```

Main page:



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)





About GVPCE

The Gayatri Vidya Parishad College of Engineering or GVPCE is a private college established in the year 1996. The educational trust, Gayatri Vidya Parishad is formed, managed and promoted by academicians and technocrats in Visakhapatnam, India. The Gayatri Vidya Parishad College of Engineering [GVPCE] had its humble beginning in December 1996 with 4 branches and 200 intake established under the parent society 'Gayatri Vidya Parishad' (GVP), a non-profitable organization comprising of noted educationists and eminent philanthropists who have a missionary zeal to provide quality technical education. From that point on, the college has very quickly established itself as one of the most-preferred self-financing engineering colleges in Andhra Pradesh offering 10 B. Tech. Programs, 9 M. Tech. and one MCA Program approved by AICTE with an intake of 1362.

Login page:



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING(A)

Login	Login Page	
Registration		
Contact	Username : John	
	Password:	
	SUBMIT	
	Forgot Password	

Registration page:



Registration Page

Username :	John	
Password:		
Confirm Password :		
Email-id:		
Mobile number :		
Date of birth :	dd-mm-yyyy 🗖	
Address:		
Gender	○Male ○Female	
SUBMIT		

Forgot password page:

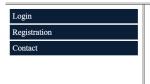


Reset your password here

New Password :

Confirm Password :

Contact page:



Contact info

Phone: <u>+91 9390662827</u> Email : <u>19131a05m3@gypce.ac.in</u>

Address

GVPCE Gandhi Nagar, Madhurawada, Visakhapatnam, Andhra Pradesh. Pincode - 530048

WEEK - 4

Aim: Perform the client-side data validations using javascript for Scenario 3 and 4 in Week 1 & 2

Program:

login.html:

```
<!DOCTYPE html>
<html>
    <head>
        <link rel="preconnect" href="https://fonts.googleapis.com">
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
        <link href="https://fonts.googleapis.com/css2?family=Merriweather&display=swap"</pre>
rel="stylesheet">
        <link href="login registration styles.css" rel="stylesheet">
    </head>
    <body>
        <h2>Login Page</h2>
        <form name="login form">
            <div class="grid-container">
                <label class="label" for="fname">Username :</label>
                <input class="label" type="text" id="fname" name="username"</pre>
value="John">
            </div>
            <div class="grid-container">
                <label class="label" for="password">Password :</label>
                <input class="label" type="password" id="lname" name="password"</pre>
value="*****">
            </div>
          </form>
          <div class="buttons">
            <button class="button" type="submit"</pre>
onclick="check login()">SUBMIT</button><br>
            <a href=forgot_password.html ><button class="button1" type="button" >Forgot
Password</button></a>
        </div>
    </body>
    <script>
        function check login(){
            let username=document.forms["login form"]["username"].value;
            let password=document.forms["login form"]["password"].value;
            if(username.length<6){</pre>
                alert('Username must be of atleast 6 characters.');
                console.log('Username must be of atleast 6 characters.');
                return false;
            }
            else if(password.length<8){</pre>
                alert("Password must be of atleast 8 characters");
```

```
console.log("Password must be of atleast 8 characters");
            }
            else if(!password.match('(?=.*[A-Z])')){
                alert ("Password should conatin atleast one uppercase letter");
                console.log("Password should conatin atleast one uppercase letter");
            }
            else if(!password.match('(?=.*[a-z])')){
                alert("Password should conatin atleast one lowercase letter");
                console.log("Password should conatin atleast one lowercase letter");
            else if(!password.match('(?=.*[0-9])')){
                alert("Password should conatin atleast one numeric");
                console.log("Password should conatin atleast one numeric");
            else if(!password.match('(?=.*[!@#$%^&*])')){
                alert("Password should conatin atleast one special symbol");
                console.log("Password should conatin atleast one special symbol");
            }
            else{
                alert("login successful")
                console.log("success")
            }
        }
   </script>
</html>
```



Login Page
Username : John
Password:
SUBMIT Forgot Password



Password: SUBMIT Forgot Password This page says Password should conatin atleast one uppercase letter OK OF ENGINEERING(A)

Username:

Login Page

firoza

Login Page

Username : firoza

.....

SUBMIT

Password:

<u>Forgot Password</u>

GAYATR

OF ENGINEERING(A)

Login Page

Username :	firoza
Password:	•••••

SUBMIT

Forgot Password

registration.html:

```
<!DOCTYPE html>
<html>
    <head>
        <link rel="preconnect" href="https://fonts.googleapis.com">
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
        <link href="https://fonts.googleapis.com/css2?family=Merriweather&display=swap"</pre>
rel="stylesheet">
        <link href="login_registration_styles.css" rel="stylesheet">
    </head>
    <body>
        <h2>Registration Page</h2>
        <form name="register form">
            <div class="grid-container">
                <label class="label" for="fname">Username :</label>
                <input class="label" type="text" id="fname" name="username"</pre>
value="John">
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Password :</label>
                <input class="label" type="password" id="lname" name="password"</pre>
value="*****">
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Confirm Password :</label>
                <input class="label" type="password" id="lname" name="confirm_password"</pre>
value="*****">
```

```
</div>
            <div class="grid-container">
                <label class="label" for="lname">Email-id :</label>
                <input class="label" type="email" id="lname" name="email id" >
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Mobile number :</label>
                <input class="label" type="number" id="lname" name="mobile no"</pre>
value="*****">
            <div class="grid-container">
                <label class="label" for="lname">Date of birth :</label>
                <input class="label" type="date" id="lname" name="dob" value="*****">
            </div>
            <div class="grid-container">
                <label class="label" for="lname">Address :</label>
                <input class="label" type="text" id="lname" name="address" >
            </div>
            <div class="grid-container">
                <label class="label">Gender</label>
                <div class="label">
        <input name="gender" type="radio"><label>Male</label>
        <input name="gender" type="radio"><label>Female</label>
        </div>
            </div>
          </form>
          <div class="buttons">
            <button class="button" type="submit"</pre>
onclick="check register()">SUBMIT</button><br>
        </div>
    </body>
    <script>
        function check register(){
            let username=document.forms["register form"]["username"].value;
            let password=document.forms["register form"]["password"].value;
confirm password=document.forms["register form"]["confirm password"].value;
            let email id=document.forms["register form"]["email id"].value;
            let mobile_no=document.forms["register_form"]["mobile_no"].value;
            var email =
\label{eq:condition} $$  \^[a-zA-Z0-9.!\#\$\&'*+/=?^ \ \ [a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)*$/; $$
            var numbers = /^{0-9}+$/;
            if(username.length<6){</pre>
                alert('Username must be of atleast 6 characters.');
                console.log('Username must be of atleast 6 characters.');
                return false;
            }
```

```
alert("Password must be of atleast 8 characters");
                console.log("Password must be of atleast 8 characters");
            else if(password!=confirm password) {
                alert("Confirm password must be the same of passsword");
                console.log("Confirm password must be the same of passsword");
            }
            else if(!password.match('(?=.*[A-Z])')){
                alert("Password should conatin atleast one uppercase letter");
                console.log("Password should conatin atleast one uppercase letter");
            else if(!password.match('(?=.*[a-z])')){
                alert("Password should conatin atleast one lowercase letter");
                console.log("Password should conatin atleast one lowercase letter");
            else if(!password.match('(?=.*[0-9])')){
                alert("Password should conatin atleast one numeric");
                console.log("Password should conatin atleast one numeric");
            else if(!password.match('(?=.*[!@#$%^&*])')){
                alert("Password should conatin atleast one special symbol");
                console.log("Password should conatin atleast one special symbol");
            }
            else if(!email_id.match(email)){
                alert("Enter valid Email id");
                console.log("Enter valid Email id");
            else if(mobile no.length!=10) {
                alert("Mobile number must contain 10 digits");
                console.log("Mobile number must contain 10 digits");
            else if(!mobile no.match(numbers)){
                alert("Mobile number must contain only digits");
                console.log("Mobile number must contain only digits");
            else if(!mobile no.charAt(0).match('(?=.*[6-9])')){
                alert("Mobile number must start with any number from 6-9");
                console.log("Mobile number must start with any number from 6-9");
            }
            else{
                alert("Registration successful")
                console.log("success")
            }
        }
    </script>
</html>
```

else if(password.length<8){</pre>

Output:

GAYATRI

OF ENGINEERING(A)

Registration Page

Username :	John
Password :	
Confirm Password :	
Email-id:	firozasheik22@gmail.c
Mobile number :	9390662827
Date of birth :	dd-mm-yyyy 🗂
Address:	58-30-30/1, Sakethapı
Gender	○ Male ● Female

SUBMIT

This page says
Password must be of atleast 8 characters

OK

OK

OF ENGINEERING(A)

Registration Page

Username :	firoza
Password :	
Confirm Password :	•••••
Email-id :	firozasheik22@gmail.d
Mobile number :	9390662827
Date of birth :	dd-mm-yyyy 🗖
Address :	58-30-30/1, Sakethapu
Gender	○ Male ● Female

OF ENGINEERING(A)

Registration Page

Username :	firoza
Password :	
Confirm Password :	
Email-id:	firozasheik22@gmail.c
Mobile number :	9390662827
Date of birth :	dd-mm-yyyy 🗖
Address:	58-30-30/1, Sakethapu
Gender	○ Male ● Female

SUBMIT

This page says

Password should conatin atleast one uppercase letter

OK

GAYATRI

OF ENGINEERING(A)

Registration Page

Username :	firoza
Password :	
Confirm Password :	
Email-id:	firozasheik22@gmail.o
Mobile number :	9390662827
Date of birth :	dd-mm-yyyy □
Address:	58-30-30/1, Sakethap
Gender	○ Male ● Female

OF ENGINEERING(A

Registration Page

me: firoza	
ord:	
n Password :	
id: firozasheil	k22@.com
number: 93906628	27
birth: dd-mm-y	уууу 🗖
s: 58-30-30/	1, Sakethapı
○ Male ●	Female
m Password: id: firozasheil number: 93906628: birth: dd-mm-y s: 58-30-30/	27 ryyy

SUBMIT

Mobile number must start with any number from 6-9

GAYATRI

This page says

OF ENGINEERING(A

Registration Page

Username :	firoza
Password :	•••••
Confirm Password :	•••••
Email-id:	firozasheik22@gmail.a
	<u> </u>
Mobile number :	5390662827
	3390002827
Date of birth :	47 00 0000
Date of birth.	17-03-2022
Address:	58-30-30/1, Sakethapı
Gender	O Male 💿 Female

OF ENGINEERING(A)

Registration Page

Username :	firoza
Password :	
Confirm Password :	
Email-id:	firozasheik22@gmail.c
Mobile number :	539066282
Date of birth :	17-03-2022
Address:	58-30-30/1, Sakethapı
Gender	○ Male

Registration Page

Username :	firoza
Password :	······
Confirm Password :	
Email-id:	firozasheik22@gmail.c
Mobile number :	9390662827
Date of birth :	17-03-2022
Address:	58-30-30/1, Sakethapı
Gender	○ Male ● Female

WEEK - 5

Aim: Create XML documents for chosen application and validate using DTD and schema. Also render the content of XML document using XSL.

Scenario 1: XML document must have attributes and elements so that they can be validated against DTD/Schema.

Scenario 2: Check the data types of variables declared in XML document using Schema.

Scenario 3: Display the details of data contained in XML document in a table using XSL.

Program:

XML file:

```
<?xml version="1.0" ?>
<!--<?xml-stylesheet type="text/xsl" href="week5_1.xsl"?> -->
<?xml-stylesheet type="text/css" href="week5.css"?>
<!DOCTYPE class SYSTEM "week5.dtd">
<class>
<teaching clg="A">
<name>T1</name><id>101</id><dept>CSE</dept>
</teaching>
<teaching clg="B">
<name>T2</name><id>102</id><dept>CSE</dept>
</teaching>
<teaching clg="C">
<name>T3</name><id>104</id><dept>ECE</dept>
</teaching>
<non teaching clg="A">
<name>NT1</name><id>111</id>
</non teaching>
<non teaching clg="B">
<name>NT2</name><id>112</id>
</non teaching>
<non teaching clg="C">
<name>NT3</name><id>113</id>
</non teaching>
<student clg="A">
<name>S1</name><rollno>1</rollno><dept>ECE</dept>
</student>
<student clq="B">
<name>S2</name><rollno>2</rollno><dept>CSE</dept>
</student>
<student clg="C">
<name>S3</name><rollno>3</rollno><dept>ECE</dept>
</student>
</class>
```

CSS file: week5.css

```
class
{
background-color: pink;
}
teaching,non_teaching,student
{
font-size:25px;
display:block;
color: blue;
margin-left: 50px;
}
```

Output:

T1101CSE
T2102CSE
T3104ECE
NT1111
NT2112
NT3113
S11ECE
S22CSE
S33ECE

XML document validating against DTD:

DTD file: week5.dtd

```
<!ELEMENT class (teaching+,non_teaching+,student+)>
<!ELEMENT teaching (name,id,dept)>
<!ATTLIST teaching clg CDATA #REQUIRED>
<!ELEMENT non_teaching (name,id)>
<!ATTLIST non_teaching clg CDATA #REQUIRED>
<!ELEMENT student (name,rollno,dept)>
<!ATTLIST student clg CDATA #REQUIRED>
<!ELEMENT name (#PCDATA)>
<!ELEMENT id (#PCDATA)>
<!ELEMENT rollno (#PCDATA)>
<!ELEMENT dept (#PCDATA)>
```

No errors were found

The following files have been uploaded so far:

XML document: 8 week5.dtd 8

Click on any file name if you want to edit the file.

XML document validating against Schema:

XSD file: week5.xsd

```
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"</pre>
xmlns="http://www.javatpoint.com"
elementFormDefault="qualified">
<xs:element name="class">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="teaching" maxOccurs="unbounded">
      <xs:complexType>
        <xs:sequence>
        <xs:element name="name" type="xs:string"/>
        <xs:element name="id" type="xs:integer"/>
        <xs:element name="dept" type="xs:string"/>
        </xs:sequence>
        <xs:attribute name="clg" type="xs:string"/>
        </xs:complexType>
    </xs:element>
      <xs:element name="non teaching" maxOccurs="unbounded">
      <xs:complexType>
        <xs:sequence>
        <xs:element name="name" type="xs:string"/>
        <xs:element name="id" type="xs:integer"/>
        </xs:sequence>
        <xs:attribute name="clg" type="xs:string"/>
        </xs:complexType>
    </xs:element>
      <xs:element name="student" maxOccurs="unbounded">
      <xs:complexType>
```

No errors were found

The following files have been uploaded so far:

XML document: 8

XML schema: 8

Click on any file name if you want to edit the file.

Displaying contents of XML document in a table using XSL:

XSL file: week5_1.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
 <html>
 <body>
<!--Teaching-->
 <h2>Teaching</h2>
 College
    Name
    id
    Dept
   <xsl:for-each select="class/teaching">
    <xsl:value-of select="@clg"/>
```

```
<xsl:value-of select="name"/>
    <xsl:value-of select="id"/>
    <xsl:choose>
     <xsl:when test="dept='CSE'">
      <xsl:value-of select="dept"/>
     </xsl:when>
     <xsl:otherwise>
      <xsl:value-of select="dept"/>
     </xsl:otherwise>
    </xsl:choose>
  </xsl:for-each>
 <!-- Non Teaching -->
 <h2>Non Teaching</h2>
 College
   Name
   id
  <xsl:for-each select="class/non teaching">
   <xsl:value-of select="@clg"/> 
    <xsl:value-of select="name"/>
   <xsl:value-of select="id"/>
  </xsl:for-each>
 <!-- Student -->
 <h2>Student</h2>
 College
   Name
   Roll no
   Dept
  <xsl:for-each select="class/student">
  <t.r>
   <xsl:value-of select="@clq"/> 
   <xsl:value-of select="name"/>
    <xsl:value-of select="rollno"/>
    <xsl:choose>
     <xsl:when test="dept='CSE'">
```

Teaching

College	Name	id	Dept
A	T1	101	CSE
В	T2	102	CSE
С	T3	104	ECE

Non Teaching

College	Name	id
A	NT1	111
В	NT2	112
С	NT3	113

Student

College	Name	Roll no	Dept
A	S1	1	ECE
В	S2	2	CSE
С	S3	3	ECE

CSE - blue color

ECE - pink color

WEEK - 6

Aim: Create necessary tables for the application chosen using JDBC, establish the database connectivity.

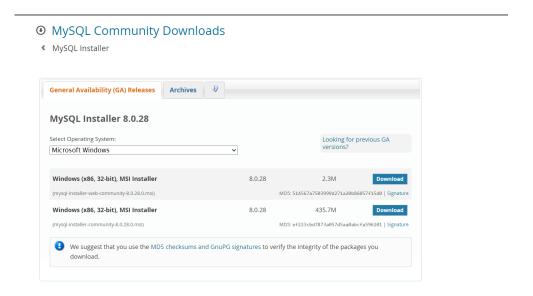
Scenario 1: Establish connectivity using JDBC drivers.

Scenario 2: Use create and select statements.

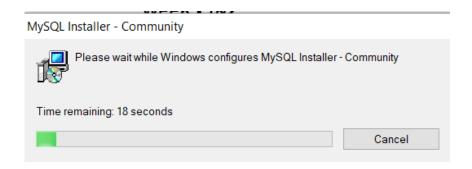
Scenario 3: Use insert, update and delete queries.

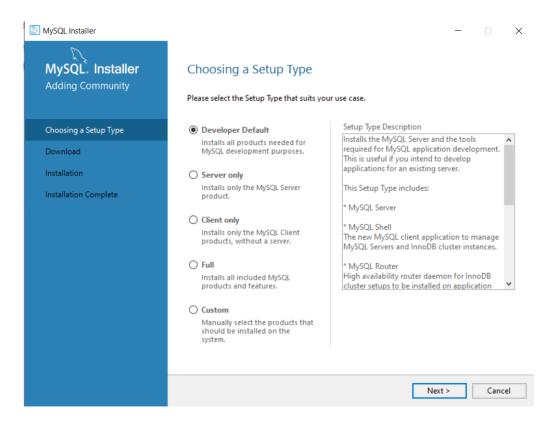
MySQL Installer:

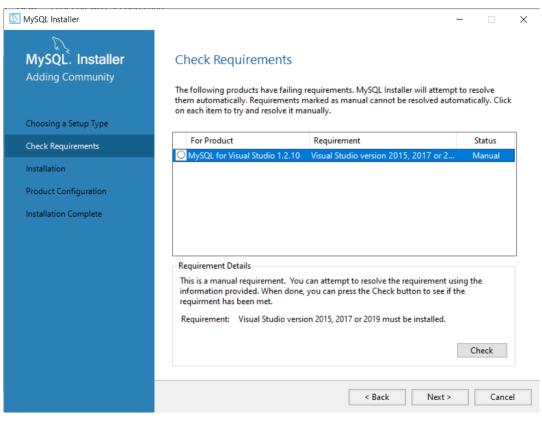
(1) Download MySQL Installer 8.0.28 from mysql.com downloads.

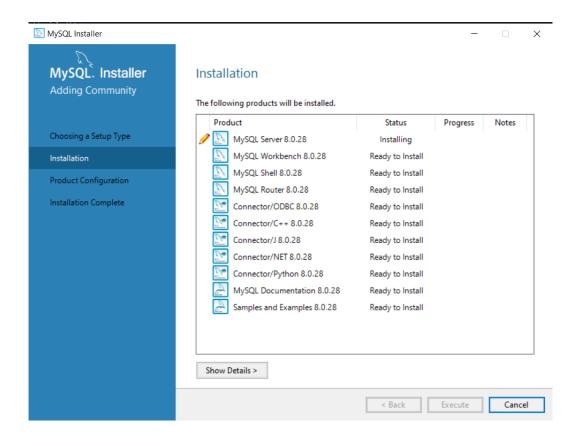


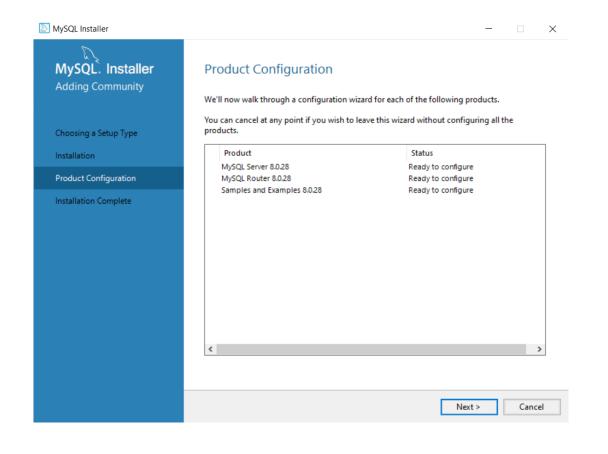
(2) Next complete the installation process :

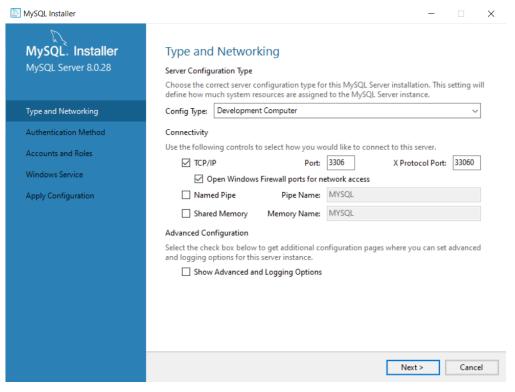


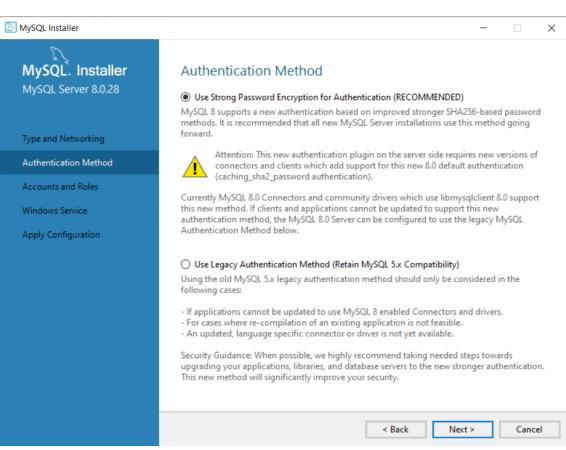


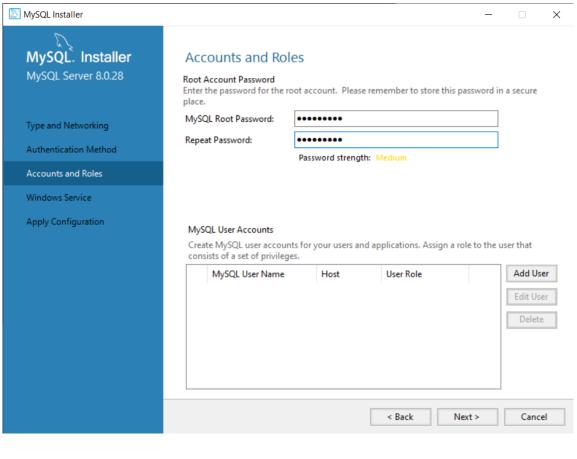


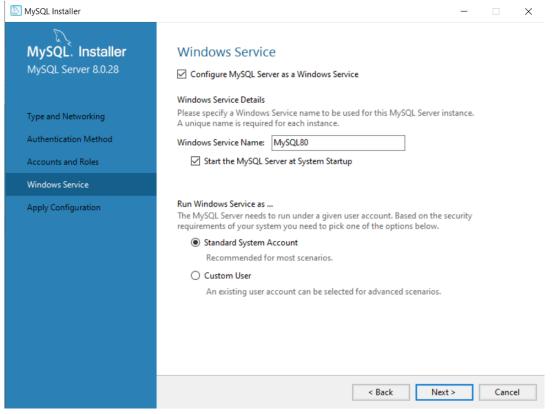


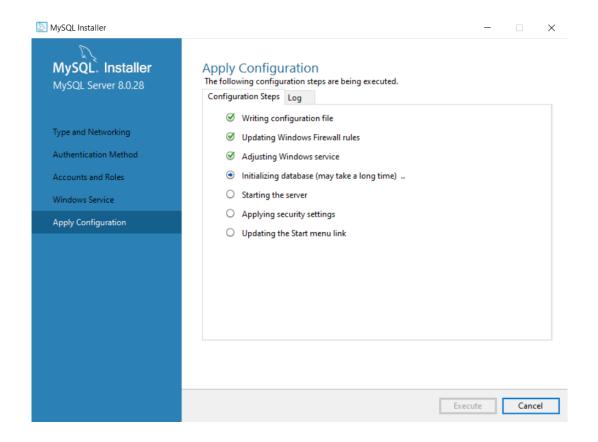


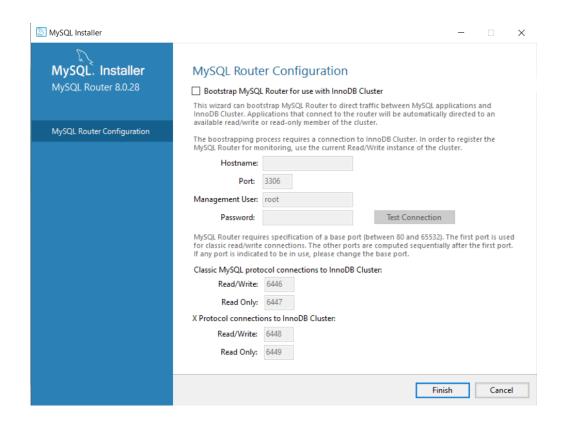


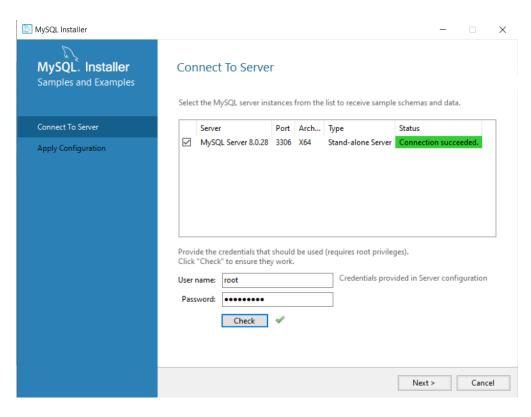


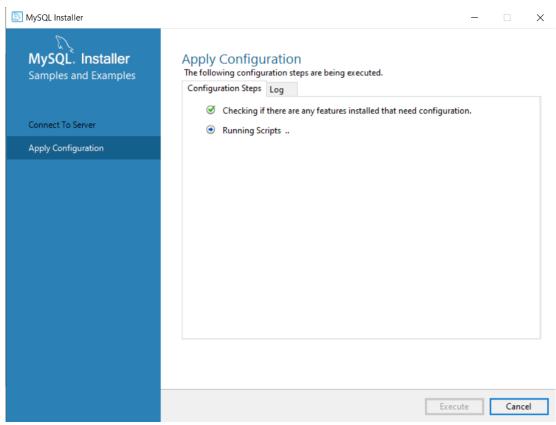


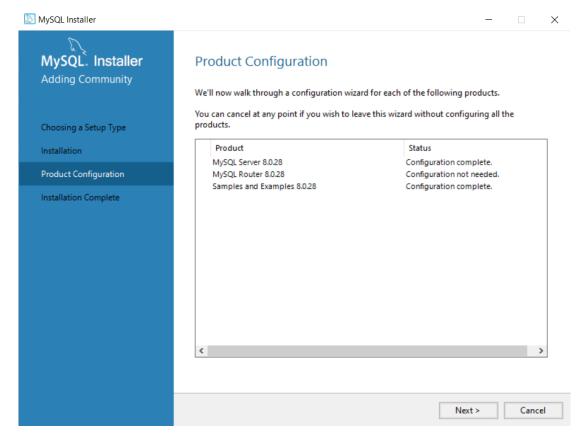


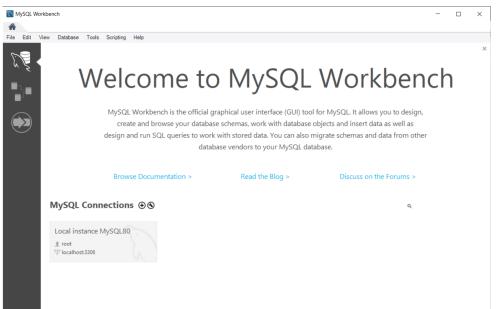








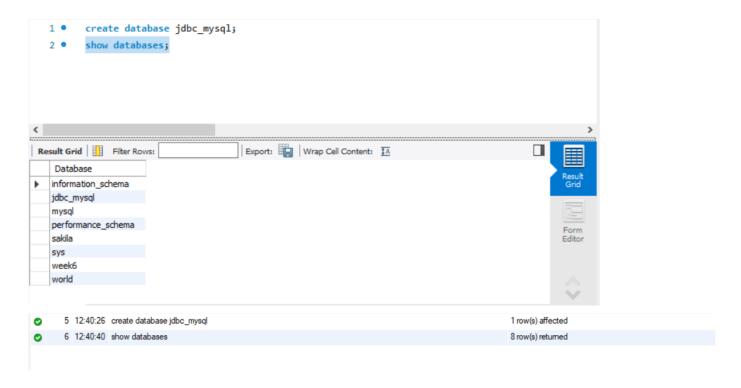




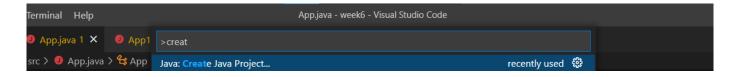
(3) Install Extension Pack for Java in VS code



(4) Open MySQL Command Line Client and create a database :

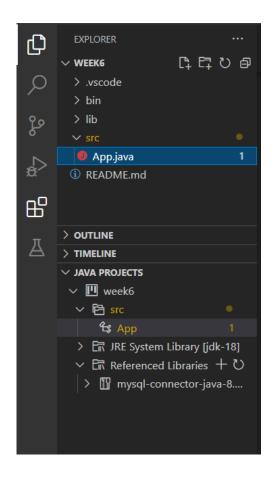


(5) Open VS code and create a new java project in command palette :



Set the location and enter a name for the java project.

(6) Add the jar file - mysql-connector-java-8.0.28 to the Referenced libraries of JAVA PROJECTS:



(7) Edit the code in src/App.java and run the program.

Program:

```
import java.sql.*;
import java.util.Scanner;
public class App {
    static Connection con;
    static String table name;
    public static void create table(String table name) throws Exception{
        Statement st=con.createStatement();
        st.executeUpdate("create table if not exists `"+table name+"`( `id` numeric
unique not null, `name` varchar(20) not null, `dept` varchar(20) not null);");
    public static void display values (String table name) throws Exception {
       Statement st=con.createStatement();
        try{
            ResultSet rs=st.executeQuery("select * from "+table name);
            System.out.println("\nid name
                                                   dept");
            while(rs.next()){
                System.out.println(rs.getInt(1)+"
                                                         "+rs.getString(2)+"
"+rs.getString(3));
        }
```

```
catch(Exception ex) {
            System.out.println("\n"+ex.getMessage()+"\n");
    }
    public static void insert values (String table name, int id, String name, String dept)
throws Exception{
        String insert = "insert into `"+table name+"` values(?,?,?)";
        PreparedStatement pst = con.prepareStatement(insert);
       pst.setInt(1, id);
        pst.setString(2, name);
        pst.setString(3, dept);
        try{
            pst.executeUpdate();
        }catch(Exception ex) {
            System.out.println(ex.getMessage());
        }
    public static void delete values (String table name, int id) throws Exception {
        Statement st=con.createStatement();
        try{
            st.executeUpdate("delete from `"+table name+"` where id = "+id);
        catch(Exception ex) {
            System.out.println(ex.getMessage());
    public static void update values (String table name, int id, String name, String dept)
throws Exception{
        Statement st=con.createStatement();
            st.executeUpdate("update "+table name+" set name = \""+name+"\", dept =
\""+dept+"\" where id = "+id);
        catch(Exception ex) {
            System.out.println(ex.getMessage());
    public static void main(String[] args) throws Exception {
        Scanner sc=new Scanner(System.in);
        Class.forName("com.mysql.cj.jdbc.Driver");
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbc mysql","root","Firoza
@22");
        while(true) {
            System.out.println("\n\n1. Create table \n2. Display values \n3. Insert
values \n4. Delete values \n5. Update values \n6. Exit\n");
        System.out.println("Enter your choice");
        int ch=Integer.valueOf(sc.nextLine());
        switch(ch){
            case 1:{
```

```
System.out.println("Enter the table Name : ");
                String table name =sc.nextLine();
                create table(table name);
            };break;
            case 2:{
                System.out.println("Enter the table Name : ");
                String table name = sc.nextLine();
                display values (table name);
            };break;
            case 3:{
                System.out.println("Enter the table Name : ");
                String table name = sc.nextLine();
                System.out.println("Enter id");
                int id = Integer.valueOf(sc.nextLine().trim());
                System.out.println("Enter name");
                String name = sc.nextLine().trim();
                System.out.println("Enter department");
                String dept = sc.nextLine().trim();
                insert values(table name,id,name,dept);
            };break;
            case 4:{
                System.out.println("Enter the table Name : ");
                String table name = sc.nextLine().trim();
                System.out.println("Enter id that is to be deleted");
                int id = Integer.valueOf(sc.nextLine().trim());
                delete_values(table_name,id);
            };break;
            case 5:{
                System.out.println("Enter the table Name : ");
                table name = sc.nextLine().trim();
                System.out.println("Enter id that is to be updated");
                int id = Integer.valueOf(sc.nextLine().trim());
                System.out.println("Enter updated name");
                String name = sc.nextLine().trim();
                System.out.println("Enter updated department");
                String dept = sc.nextLine().trim();
                update values(table name, id, name, dept);
            };break;
            default:{System.exit(0);};
        }
    }
}
```

```
PS C:\Users\firoz\Documents\firoza_sem6\web_tec
                                                 1. Create table
jdk-18\bin\java.exe' '-XX:+ShowCodeDetailsInExc
1. Create table
2. Display values
                                                 6. Exit
Insert values
4. Delete values
5. Update values
6. Fxit
                                                 employee
Enter your choice
                                                 Enter id
Enter the table Name :
                                                 Enter name
employee
                                                 pqr
                                                 ece
1. Create table
Display values
Insert values
4. Delete values
5. Update values
6. Exit
Enter your choice
                                                 6. Exit
Enter the table Name :
employee
Enter id
                                                 employee
Enter name
                                                 id
abc
                                                          name
Enter department
                                                           abc
                                                           pqr
                                      Enter your choice
```

```
2. Display values
3. Insert values
4. Delete values
5. Update values
6. Exit

Enter your choice
3
Enter the table Name :
employee
Enter id
2
Enter name
pqr
Enter department
ece

1. Create table
2. Display values
3. Insert values
4. Delete values
5. Update values
6. Exit

Enter your choice
2
Enter the table Name :
employee
id name dept
1 abc cse
2 pqr ece

choice
1. Create t
```

```
1. Create table
2. Display values
Insert values
4. Delete values
5. Update values
6. Exit
Enter your choice
Enter the table Name :
employee
Enter id that is to be deleted
1. Create table
2. Display values
3. Insert values
4. Delete values
5. Update values
6. Exit
```

employee id name dept 2 ece pqr 1. Create table Display values Insert values
 Delete values 5. Update values 6. Exit Enter your choice Enter the table Name: employee Enter id that is to be updated Enter updated name XYZ Enter updated department

Enter the table Name :

1. Create table 2. Display values Insert values 4. Delete values 5. Update values 6. Exit Enter your choice Enter the table Name: employee id name dept xyz civ 1. Create table 2. Display values 3. Insert values 4. Delete values 5. Update values 6. Fxit

Enter your choice

