Ex 1

```html
<!DOCTYPE html>
<html>
<frameset cols="25%,50%,25%">
<frame src="1.html"></frame>
<frame src="2.html"></frame>
<frame src="3.html"></frame>
</frameset>
</html>

<!DOCTYPE html>
<html>
<form>
user id
<input type="text" /></br>
<button>submit</button>
</form>
</html>

<!DOCTYPE html>
<html>
<style>
table,
th,
td {
border: 1px solid;
}
</style>
<table>
<tr>
<th>Roll no</th>
<th>Name</th>
<th>Dept</th>
</tr>
<tr>
<td>21DX05</td>
<td>Gokul</td>
<td>DCE</td>
</tr>
<tr>
<td>21DX05</td>
<td>Gokul</td>
<td>DCE</td>
</tr>
</table>
</html>

<!DOCTYPE html>
<html>
<a href="https://www.wikipedia.org"><button>wiki</button></a>
</html>
```

Ex 2

```
<link rel="stylesheet" href="css.css" />
<style>
.new {
background-color: pink;
}
</style>
<p style="font-size: larger; color: blue">hi this is gokul</p>
<div class="new">hello</div></br>
<div class="body">Welcome</div>

.body {
font-style: italic;
}
```

Ex 3

```
<!DOCTYPE html>
<html>
<body>
<form name="form" onsubmit="return validate()">
Name :
<input type="text" name="Name" required></br>
Dept :
<input type="text" required></br>
Mail id:
<input type="email" required></br>
Password :
<input type="password" name="Password" required></br>
<input type="submit" value="Submit">
</form>
<script src="validate.js"></script>
</body>
</html>

function validate() {
var name = document.form.Name.value;
var pass = document.form.Password.value;
if (name.length < 6) {
alert('Name is too short');
return false;
}
if (pass.length < 6 || pass === '') {
alert('Password is too short or empty');
return false;
}
alert('Successfully registered');
return true;
}
```

Ex 4 a

```
<script>
function date() {
document.getElementById('dateInput').value = new Date();
}
</script>
<body
style="text-align: center;
margin-top: 10cm;
background-color: grey;"
>
Live Date Counter</br>
<button onclick="date()">Show Date</button>
<input type="text" id="dateInput" />
</body>
```

Ex 4 b

```
Factiorial of given number</br>
<input id="num" type="text">
<button onclick="fact()">Submit</button>
<script>
function fact(){
var num=parseInt(document.getElementById('num').value);
var i=1, fact=1;
for(;i<=num;i++){
fact=fact*i;
}
window.alert('Factorial of '+num+' is '+fact);
}
</script>
```

Ex 5

```
<html xmlns="http://www.w3.org/1999/xhtml">
<h1>Enter your details</h1></br>
Roll no :
<input id="roll" type="text"></br>
<button onClick="validate()">Submit</button>
<script>
function validate(){
const roll=parseInt(document.getElementById('roll').value);
const pattern= /\d{2}[A-Z]{2}\d{2}/;
if(pattern.test(roll)){
alert('Valid Roll no');
}
else{
alert('Inavlid Roll no');
}
}
</script>
```

```
</html>
```

Ex 6 a
xml

```xml
<?xml-stylesheet type="text/css" href="xml.css"?>
<students>
<student>
<roll_no>05</roll_no>
<name>Gokul</name>
<dept>dce</dept>
<year>2021</year>
<mail>21dx05@gmail.com</mail>
</student>
<student>
<roll_no>05</roll_no>
<name>Gokul</name>
<dept>dce</dept>
<year>2021</year>
<mail>21dx05@gmail.com</mail>
</student>
<student>
<roll_no>05</roll_no>
<name>Gokul</name>
<dept>dce</dept>
<year>2021</year>
<mail>21dx05@gmail.com</mail>
</student>
</students>

student {
display: block;
padding: 10px;
margin: 10px;
border: 1px solid;
}
roll_no,
roll_no,
dept,
year,
mail {
display: block;
}
```

Ex 6 b

xsl

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns="http://www.w3.org/1999/xhtml">
<xsl:template match="student">
<html>
<h1>Student Information</h1>
<span>Roll no : </span>
<xsl:value-of select = "roll"/><br/>
<span>Name : </span>
<xsl:value-of select = "name"/><br/>
<span>Dept : </span>
<xsl:value-of select = "dept"/><br/>
</html>
</xsl:template>
</xsl:stylesheet>
```

xml

```
<?xml-stylesheet type="text/xsl" href="xslt.xsl"?>
<student>
<roll>05</roll>
<name>gokul</name>
<dept>DCE</dept>
</student>
```

Ex 7

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<title>Variable Example</title>
</head>
<body>
<% String message = "Hello, This is Gokul!"; %>
<h1><%= message %></h1>
</body>
</html>
```

Ex 8

create database goku; use goku;
CREATE TABLE goku(id varchar(10),
name varchar(20)
);
INSERT INTO goku VALUES ('21dx05', 'gokul');
INSERT INTO goku VALUES ('21dx0', 'goku');
INSERT INTO goku VALUES ('21dx', 'gok');
INSERT INTO goku VALUES ('21d', 'go');
INSERT INTO goku VALUES ('21', 'g');
SELECT * FROM goku

jsp

```jsp
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.Connection"%>
<%
String id = request.getParameter("userId");
String driverName = "com.mysql.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost:3306/";
String dbName = "goku";
String userId = "root";
String password = "gokul";
try {
Class.forName(driverName);
}
catch (ClassNotFoundException e) {
e.printStackTrace(); }
Connection connection = null;
Statement statement = null;
ResultSet resultSet = null; %>
<h2 align="center">
<font><strong>Retrieve students data from goku database in
jsp</strong></font>
</h2>
<table align="center" cellpadding="5" cellspacing="5" border="1">
<tr></tr>
<tr bgcolor="#D91C9K">
<td><b>name</b></td>
<td><b>id</b></td>
</tr>
<% try{
connection = DriverManager.getConnection(connectionUrl+dbName,
userId, password);
statement=connection.createStatement();
String sql ="SELECT * FROM goku";
resultSet = statement.executeQuery(sql);
while(resultSet.next()){ %>
<tr bgcolor="#DEB796">
```

```
<td><%=resultSet.getString("name") %></td>
<td><%=resultSet.getString("id") %></td>
</tr>
<% } } catch (Exception e) { e.printStackTrace(); } %>
</table>
```

Ex 9

```
create database ex;
use ex;
create table ex(
name varchar(50),
id varchar(20)
);
insert into ex values('ex','21dx05');
insert into ex values('rahul','21dx16');
insert into ex values('ex','21dx005');
insert into ex values('rahul','21dx16');
insert into ex values('ex','21dx05');
insert into ex values('gokul','gokul');
select * from ex;
```

jsp 1

```
<h2>Login</h2>
<form action="second.jsp" method="get">
username<input type="text" placeholder="username..."
name="username" /><br />
password<input
type="password"
placeholder="password..."
name="password"
/><br />
<input type="submit" value="submit" /><br />
</form>
```

jsp 2

```
<%@page import="java.sql.*"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.Connection"%>
<% String driverName = "com.mysql.jdbc.Driver";
String conUrl = "jdbc:mysql://localhost:3306/ex";
String userId = "root";
String password = "gokul";
try {
Class.forName(driverName); }
catch (ClassNotFoundException e) {
e.printStackTrace(); }
Connection con = null;
Statement st = null;
```

```
ResultSet rs = null; %>
<h2 align="center">
<font><strong>Login authentication</strong></font>
</h2>
<% try { con = DriverManager.getConnection(conUrl, userId,
password);
String name = request.getParameter("username");
String pass = request.getParameter("password");
st = con.createStatement();
String sql = "SELECT * FROM ex WHERE name = '" + name + "' AND id
= '" + pass + "'";
rs = st.executeQuery(sql);
int rowCount = 0;
while (rs.next()) {
rowCount++;
}
if (rowCount > 0) {
%> Login Successful <% }
else {
%> Login failed <%
} } catch (Exception ex) {
System.out.println("Statement Error: " + ex.getMessage());
}
finally {
try { if (rs != null) rs.close();
if (st != null) st.close();
if (con != null) con.close(); }
catch (SQLException e) { e.printStackTrace(); } } %>
```

Ex 10

```
<!DOCTYPE html>
<html ng-app="myApp">
<head>
<title>AngularJS Book List</title>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular
.min.js"></script>
</head>
<body>
<div ng-controller="BookController">
<h1>Book List</h1>
<input
type="text"
ng-model="authorFilter"
placeholder="Filter by Author"
/>
<ul>
<li ng-repeat="book in books | filter: authorFilter">
<strong>Title:</strong> {{ book.title }}<br />
<strong>Author:</strong> {{ book.author }}<br />
<strong>Publication Year:</strong> {{ book.year }}<br /><br />
```

```html
        </li>
      </ul>
    </div>
    <script>
      var app = angular.module('myApp', []);
      app.controller('BookController', function ($scope) {
        $scope.books = [
          { title: 'To Kill a Mockingbird', author: 'Harper Lee', year: 1960
          },
          { title: '1984', author: 'George Orwell', year: 1949 },
          { title: 'Pride and Prejudice', author: 'Jane Austen', year:
          1813 },
          {
            title: 'The Great Gatsby',
            author: 'F. Scott Fitzgerald',
            year: 1925,
          },
          {
            title: 'The Catcher in the Rye',
            author: 'J.D. Salinger',
            year: 1951,
          },
        ];
        $scope.authorFilter = '';
      });
    </script>
  </body>
</html>
```