

**1. Write a PHP script to print prime numbers between 1-50**

```
<?php
$count = 0;
$num = 2;
while ($count < 15 )
{
    $div_count=0;
    for ( $i=1; $i<=$num; $i++)
    {
        if (($num%$i)==0)
        {
            $div_count++;
        }
    }
    if ($div_count<3)
    {
        echo $num." , ";
        $count=$count+1;
    }
    $num=$num+1;
}
?>
```

OUTPUT

```
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47
```

**2.a)PHP Script to find the length of a string.**

```
<?php
$str1 = 'Hey';
echo strlen($str1);
?>
```

**OUTPUT:** 3

**2.b)PHP Script to Count no of words in a string.**

```
<?php
$str = "Hey i just met you";
$len = str_word_count($str);
echo $len;
?>
```

**//output:5**

**2.c)PHP Script to Reverse a string**

```
<?php
```

```
function Reverse($str){  
    return strrev($str);  
}
```

```
$str = "HELLO";  
echo Reverse($str)  
?>
```

**//output:OLLEH**

## 2.d)PHP Script to Search for a specific string.

```
<?php  
$substring = "know";  
$mystring = "If you know i know";  
  
if(strpos($mystring, $substring) !== false){  
    echo "Word Found!";  
} else{  
    echo "Word Not Found!";  
}  
?>
```

**//output:Word Found!**

## 3) Write a PHP script to merge two arrays and sort them as numbers, in descending order.

```
<?php  
$a1=array(1,3,15,7,5);  
$a2=array(4,3,20,1,6);  
$num=array_merge($a1,$a2);  
array_multisort($num,SORT_DESC,SORT_NUMERIC);  
print_r($num);  
?>
```

```
Array ( [0] => 20 [1] => 15 [2] => 7 [3] => 6 [4] => 5 [5] => 4 [6] => 3 [7] => 3 [8] => 1 [9] => 1 )
```

**4) Write a PHP script that reads data from one file and write into another file.**

```
<!DOCTYPE html>
<html>
<body>
<?php
$myfile = fopen("abc.html", "r") or die("Unable to open file!");
echo fread($myfile,filesize("abc.html"));
fclose($myfile);
?>
</body>
</html>

<html>
<body>
<text align="center"> AJAX = Asynchronous JavaScript and XML<br>
CSS = Cascading Style Sheets<br>
HTML = Hyper Text Markup Language<br>
PHP = PHP Hypertext Preprocessor<br>
SQL = Structured Query Language<br>
SVG = Scalable Vector Graphics<br>
XML = EXtensible Markup Language
</body>
</html>
```

---

AJAX = Asynchronous JavaScript and XML  
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SVG = Scalable Vector Graphics  
XML = EXtensible Markup Language

**5) Develop static pages for your project****Login.html**

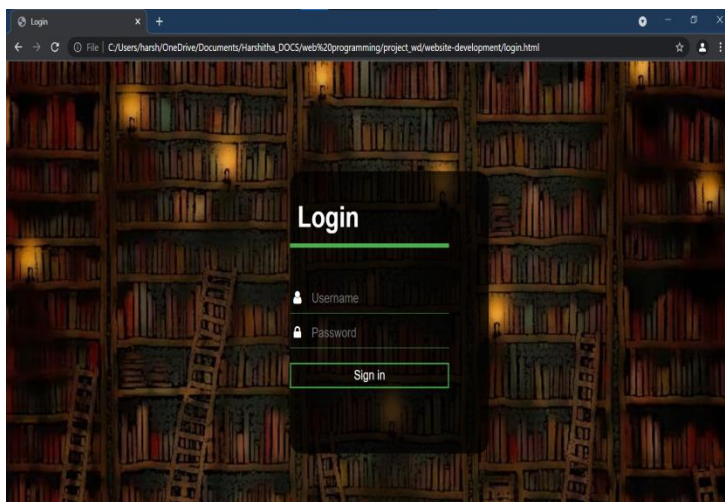
```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Login</title>
    <link rel="stylesheet" href="slogin.css">
  <body>
    <div class="login-box">
      <h1>Login</h1>
```

```

<div class="textbox">
  <i class="fa fa-user" aria-hidden="true"></i>
  <input type="text" placeholder="Username" name="" value="">
</div>
<div class="textbox">
  <i class="fa fa-lock" aria-hidden="true"></i>
  <input type="password" placeholder="Password" name="" value="">
</div>
<input class="btn" type="button" name="" value="Sign in">
</div>
</body>
</head>
</html>

```

## OUTPUT:



## Genre.html

```

<html>
<head>
<style>
  body {

```

```
background-image: url("https://thumbs.dreamstime.com/b/fence-painted-turquoise-color-
background-texture-fence-board-painted-turquoise-background-color-139085922.jpg");
}
</style>
<title>
Coverpage
</title>
<style>
.column {
float: left;
width: 32.33%;
padding: 5px;
}

.row::after {
content: "";
clear: both;
display: table;
}
</style>
</head>
<body>
<h1 style="color:brown;"><center>Categories</center></h1>

</br>
</br>
</br>

<div class="row">
<div class="column">

<h1 style="color:indigo;">Comics</h1>

</div>

<div class="row">
<div class="column">


<h1 style="color:indigo;">Sci-fi</h1>

</div>

<div class="row">
```

```
<div class="column">
  

<h1 style="color:indigo;">Art</h1>

</div>
<div class="row">
  <div class="column">
    

<h1 style="color:indigo;">Entertainment</h1>

  </div>
<div class="row">
  <div class="column">
    
<h1 style="color:indigo;">Food</h1>

  </div>
<div class="row">
  <div class="column">
    

<h1 style="color:indigo;">Fashion</h1>

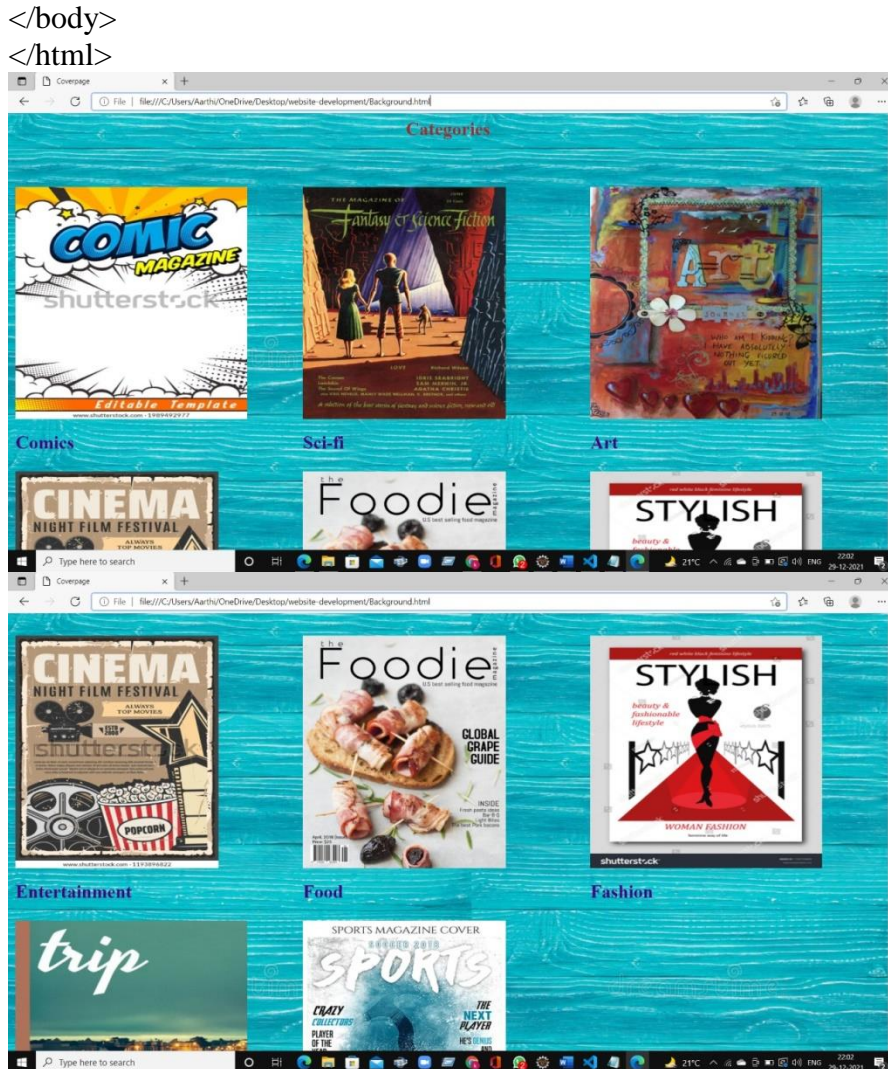
  </div>
<div class="row">
  <div class="column">
    
<h1 style="color:indigo;">Travel</h1>

  </div>
<div class="row">
  <div class="column">
    

<h1 style="color:indigo;">Sports</h1>

  </div>

</div>
```



### Navigation.html

```
<head>
  <meta charset="utf-8" />
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.3.0/css/font-awesome.min.css">
  <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>

  <div class="container bar">
    <label class="floatLeft" for="navBtn"><span></span></label>
    <span class="floatRight paddingRight2rem">
    </span>
  </div>
  <div class="container">
    <input type="checkbox" class="navBtn" id="navBtn" />
    <nav>
      <ul>
        <li>
          <a href="D:\wp\comic image.jpeg"><i class="fa fa-heart"></i>Comic</a>
        </li>
        <li>
          <a href="D:\wp\sci-fi image.jpeg"><i class="fa fa-medkit"></i>Fiction</a>
        </li>
```

```

    <li>
      <a href="D:\wp\art image.jpeg"><i class="fa fa-heartbeat"></i>Art</a>
    </li>
    <li>
      <a href="D:\wp\entertainment image.jpeg"><i class="fa fa-ambulance"></i>Entertainment</a>
    </li>
    <li>
      <a href="D:\wp\food image.jpeg"><i class="fa fa-ambulance"></i>Food</a>
    </li>
    <li>
      <a href="D:\wp\fashion image.jpeg"><i class="fa fa-ambulance"></i>Fashion</a>
    </li>
    <li>
      <a href="D:\wp\travel image.jpeg"><i class="fa fa-ambulance"></i>Travel</a>
    </li>
    <li>
      <a href="D:\wp\sports image.jpeg"><i class="fa fa-ambulance"></i>Sports</a>
    </li>
  </ul>
</nav>
</div>

```

### Navigation.css

```

/* =====
Google Fonts
===== */
@import url(https://fonts.googleapis.com/css?family=PT+Sans:400,400italic,700,700italic);
/* =====
clearfix
===== */
.cf:before,
.cf:after {
  content: " ";
  /* 1 */
  display: table;
  /* 2 */
}

.cf:after {
  clear: both;
}

.cf {
  *zoom: 1;
}

/* =====
html, body and stuff
===== */
*, *:before, *:after {
  -moz-box-sizing: border-box;
  -webkit-box-sizing: border-box;
  box-sizing: border-box;
}

body {
  font-size: 100%;
  font-family: 'PT Sans', sans-serif;
  background-color: #f3f3f3;
}

```



```

}

/* =====
text
===== */
.left {
  text-align: left;
}

.center {
  text-align: center;
}

.right {
  text-align: right;
}

.justify {
  text-align: justify;
}

.uppercase {
  text-transform: uppercase;
}

/* =====
padding / margin
===== */
.padding1rem {
  padding: 1rem;
}

.paddingRight2rem {
  padding: 0 2rem 0 0;
}

/* =====
links
===== */
a {
  color: white;
}

/* =====
headlines
===== */
/* =====
awesome Fonts
===== */
i {
  color: #d1d4d9;
  margin: 0 1rem 0 0;
}

/* =====
layout
===== */
.container {
  max-width: 100%;
  margin: 0 auto;

```

```
overflow: hidden;
}

.floatLeft {
  float: left;
}

.floatRight {
  float: right;
}

.posAbs {
  position: absolute;
}

.third {
  width: 33.3333%;
}

.half {
  width: 50%;
}

.twoThird {
  width: 66.6666%;
}

.quarter {
  width: 25%;
}

label {
  cursor: pointer;
  border-right: 1px solid #d1d4d9;
  display: block;
  height: 4rem;
  width: 4rem;
  position: relative;
}

label span {
  border-radius: 15%;
  height: 3px;
  width: 32px;
  background-color: white;
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translateY(-50%) translateX(-50%);
  transition: all 0.3s ease-out;
}

label span:before {
  border-radius: 15%;
  position: absolute;
  content: "";
  height: 100%;
  width: 100%;
  background-color: white;
  top: 400%;
  transition: all 0.3s ease-out;
}
```

```
label span:after {
  border-radius: 15%;
  position: absolute;
  content: "";
  height: 100%;
  width: 100%;
  background-color: white;
  top: -400%;
  transition: all 0.3s ease-out;
}

label:hover span {
  height: 0;
  transition: all 0.3s ease-out;
}

label:hover span:before {
  height: 3px;
  transform: rotate(-45deg);
  transition: all 0.3s ease-out;
}

label:hover span:after {
  height: 3px;
  transform: rotate(45deg);
  transition: all 0.3s ease-out;
}

.bar {
  color: white;
  background-color: #4a4e54;
  line-height: 4rem;
  border: 1px solid grey;
}

nav {
  border-left: 1px solid #d1d4d9;
  border-right: 1px solid #d1d4d9;
  border-bottom: 1px solid #d1d4d9;
  max-width: 300px;
  background-color: white;
  transform: translateX(-100%) scale(1, 0.1);
  transform-origin: top left;
  transition: all 0.3s ease-out;
}

nav ul {
  margin: 0;
  padding: 0;
  list-style: none;
}

nav ul li {
  border-top: 1px solid #efefef;
  opacity: 0;
  transform: translateX(-100%);
  transition: all 0.6s ease-out;
}

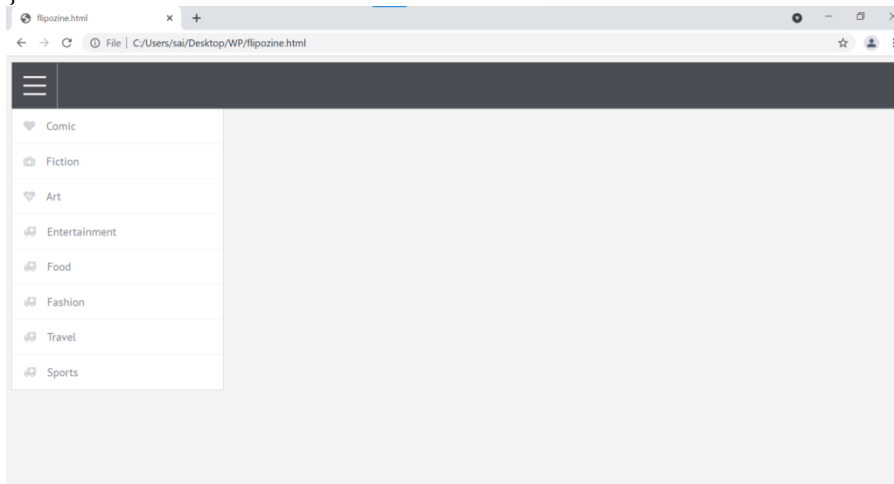
nav ul li a {
  transition: all 0.3s ease-out;
  line-height: 1rem;
  text-decoration: none;
  color: #8a8d92;
  display: block;
```

```
padding: 1rem;
}
nav ul li:first-child {
border-top: none;
}
nav ul li:hover a {
color: white;
background-color: #6d747e;
transition: all 0.3s ease-out;
}
nav ul li:hover a i {
color: white;
}

.navBtn:checked ~ nav {
transform: translateX(0);
transition: all 0.3s ease-out;
}

.navBtn:checked ~ nav ul li {
opacity: 1;
transform: translateX(0);
transition: all 0.6s ease-out;
}

.navBtn {
display: none;
}
```



## 7) Validate the Login page using JavaScript.

```
<html>
<body bgcolor="pink"><br><br><br>
<script language="javascript">
function validate()
{
var flag=1;
if(document.myform.id.value=="")||
document.myform.pwd.value=="")
```

[illegible]

# Form Validation using JavaScript

---

## Registration Form

First Name:

Last Name:

Address:

Gender: ☐ Male ☐ Female

Email Id:

Mobile:

Course:

This page says  
Name is required

OK

## Registration Form

First Name:

Last Name:

Address:

Gender: ☐ Male ☐ Female

Email Id:

Mobile:

Course:

**6. Create and save an XML document on the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.**

## User.xml

<?xml version="1.0"?>

&lt;userlist&gt;

&lt;user&gt;

```
<userid>usr01</userid>
<username>Bhuvana</username>
<address>Hyderabad</address>
<phone>7786886546</phone>
<email>19wh1a1260@bvrithyderabad.edu.in</email>
</user>
<user>
<userid>usr02</userid>
<username>Howl</username>
<address>London</address>
<phone>4409086578</phone>
<email>abc@gmail.com</email>
</user>

<user>
<userid>usr03</userid>
<username>Ed</username>
<address>Beijing</address>
<phone>6757864689</phone>
<email>bb@gmail.com</email>
</user>

<user>
<userid>usr04</userid>
<username>Catalina</username>
<address>Russia</address>
<phone>9675465754</phone>
<email>hieeimcat@gmail.com</email>
</user>

<user>
<userid>usr05</userid>
<username>Banner</username>
<address>New york</address>
<phone>55577775757</phone>
<email>imhulkogree@gmail.com</email>
</user>

<user>
<userid>usr06</userid>
<username>Grey</username>
<address>Scotland</address>
<phone>4345678432</phone>
<email>greyandspots@gmail.com</email>
</user>

<user>
<userid>usr07</userid>
<username>Laila</username>
<address>Himachal Prades</address>
```

```
<phone>956754785</phone>
<email>imlaila@gmail.com</email>
</user>
<user>
<userid>usr08</userid>
<username>Winter</username>
<address>Korea</address>
<phone>7878654321</phone>
<email>wintermaster@gmail.com</email>
</user>
<user>
<userid>usr09</userid>
<username>Eugene</username>
<address>Netherlands</address>
<phone>4156783456</phone>
<email>tangledeugene@gmail.com</email>
</user>

<user>
<userid>usr10</userid>
<username>Parker</username>
<address>Brooklyn</address>
<phone>7878676575</phone>
<email>spideywebweb@gmail.com</email>
</user>

</userlist>
```

### User.html

```
<html>
<head>
<script language="javascript">
function fncDisplayInfo()
{
var xhttp=null;
var flag=0;
var userid = document.frm.uname.value;
var xmlDoc = new ActiveXObject("microsoft.xmldom");
xmlDoc.load("user.xml");
var noOfUsers = xmlDoc.getElementsByTagName("userlist")[0].childNodes.length;
for(var i=0;i<parseInt(noOfUsers);i++)
{
var uid
=xmlDoc.getElementsByTagName("user")[i].childNodes[0].childNodes[0].nodeValue;
if(uid == userid)
{
```

```
document.write("<h1> User Details</h1>");  
var userName =  
xmlDoc.getElementsByTagName("user")[i].childNodes[1].childNodes[0].nodeValue;  
var Address  
=xmlDoc.getElementsByTagName("user")[i].childNodes[2].childNodes[0].nodeValue;  
var phone =  
xmlDoc.getElementsByTagName("user")[i].childNodes[3].childNodes[0].nodeValue;  
var email=  
xmlDoc.getElementsByTagName("user")[i].childNodes[4].childNodes[0].nodeValue;  
document.write("<br><b>User ID :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;" + uid)  
document.write("<br>User Name :&nbsp;" + userName);  
document.write("<br>Address :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;" + Address);  
document.write("<br>Phone no : &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;" + phone);  
document.write("<br>E - Mail : &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;" + email);  
flag = 1;  
break;  
}  
}  
if(flag==0)  
{  
alert("Invalid User");  
}  
}  
  
</script>  
</head>  
<body>  
<center>  
<h1><b>User Information</b></h1>  
<form name="frm">  
User ID : <input type="text" name="uname"><br>  
<input type="button" name="btn" value="Submit" onclick="fncDisplayInfo()">  
</form>  
</center>  
</body>  
</html>
```

## User Information

User ID :



## User Details

User ID : usr01  
 User Name : Bhuvana  
 Address : RTC X roads  
 Phone no : 7786886546  
 E - Mail : 19wh1a1260@bvnithyderabad.edu.in

### 8) Install TOMCAT web server. Implement servlets for registration page of your project.

Hello.java

```

import jakarta.servlet.http.*;
import jakarta.servlet.*;
import java.io.*;
import java.sql.*;

public class Hello extends HttpServlet{

    public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException,
    IOException{
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        String Name=request.getParameter("userName");
        String password=request.getParameter("userPass");
        String email=request.getParameter("userEmail");
        String mobile=request.getParameter("userMobile");
        String dob=request.getParameter("userDOB");
        String gender=request.getParameter("gender");
        String country=request.getParameter("userCountry");
        out.print("Hello "+Name);
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wp","root","12345");
            PreparedStatement ps=con.prepareStatement("insert into wp.registration values(?,?,?,?,?,?,?)");

            ps.setString(1,Name);
            ps.setString(2,password);
            ps.setString(3,email);
            ps.setString(4,mobile);
            ps.setString(5,dob);
            ps.setString(6,gender);
            ps.setString(7,country);
            int r=ps.executeUpdate();
            if(r==0)
                out.println("insertion failure");
            else
                out.println(" your registration is successful");
            con.close();
            ps.close();
        }
        catch(Exception e)
        {

        }
    }
}
  
```

```

        out.close();
    }
}

```

### Web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="https://jakarta.ee/xml/ns/jakartaee"
xmlns:web="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd" id="WebApp_ID" version="5.0">
  <display-name>WP_SERVLETS</display-name>
  <welcome-file-list>
    <welcome-file>register.html</welcome-file>
  </welcome-file-list>
  <servlet>
    <description></description>
    <display-name>Hello</display-name>
    <servlet-name>Hello</servlet-name>
    <servlet-class>Hello</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>Hello</servlet-name>
    <url-pattern>/Hello</url-pattern>
  </servlet-mapping>
</web-app>

```

### Register.html

```

<html>
<body>
  <form action="/Hello" method="get">
    <fieldset style="width:20%; background-color:#ccffeb">
      <h2 align="center">Registration form</h2><hr>
      <table>
        <tr>
          <td>Name</td>
          <td><input type="text" name="userName" required /></td>
        </tr>
        <tr>
          <td>Password</td>
          <td><input type="password" name="userPass" required /></td>
        </tr>
        <tr>
          <td>Email Id</td>
          <td><input type="text" name="userEmail" required /></td>
        </tr>
        <tr>
          <td>Mobile</td>
          <td><input type="text" name="userMobile" required /></td>
        </tr>
        <tr>
          <td>Date of Birth</td>
          <td><input type="date" name="userDOB" required /></td>
        </tr>
        <tr>
          <td>Gender</td>
          <td><input type="radio" name="gender" value="male" checked> Male
            <input type="radio" name="gender" value="female"> Female </td></tr>
        <tr>
          <td>Country</td>
          <td><select name="userCountry" style="width:130px">
            <option>Select a country</option>

```

```

<option>India</option>
<option>America</option>
<option>England</option>
<option>other</option></select>
</td>
</tr>
<tr>
<td><input type="reset" value="Reset"/></td>
<td><input type="submit" value="Register"/></td>
</tr>
</table>
</fieldset>
</form>
</body>
</html>

```

**Registration form**

Name

Password

Email Id

Mobile

Date of Birth  

Gender ☒ Male ☐ Female

Country

MySQL Workbench

Local instance MYSQL80

File Edit View Query Database Server Tools Scripting Help

Navigator registration details registration - Table registration registration -

SCHEMAS

Filter objects

zakia

wp

Tables

registration

Views

Stored Procedures

Functions

Table Name: registration

Charset/Collation: utf8mb4 utf8mb4\_0900\_KS

Comments:

Column Name	Data Type	PK	NI	UQ	B	LN	2P	AI	G
name	VARCHAR(50)								
password	VARCHAR(50)								
email	VARCHAR(50)								
mobile	VARCHAR(10)								
dob	VARCHAR(20)								
gender	VARCHAR(10)								
country	VARCHAR(10)								



localhost:8080/WP\_SERVLETS/Hello?us

Hello Bhuvana your registration is successful

1 • SELECT \* FROM wp.registration;

Result Grid

Filter Rows:

Export:  Wrap Cell Content: 

Name	password	email	mobile	dob	gender	country
Bhuvana 12345		19wh1a1260@bvrthyderabad.edu.in	7786886546	2001-11-20	female	India

**9) Implement JSP FOR YOUR REGISTRATION PAGE****Register.jsp**

```

<% @ page import="java.io.*" %>
<% @ page import="java.sql.*" %>

<%
String result="";
String username=request.getParameter("userName");
String password=request.getParameter("userPass");
String phonenumber=request.getParameter("userMobile");
String address=request.getParameter("userAddress");
String city=request.getParameter("userCity");
String state=request.getParameter("userState");
String country=request.getParameter("userCountry");
try
{
Class.forName("com.mysql.cj.jdbc.Driver");
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wp","root","12345");
PreparedStatement ps=con.prepareStatement("insert into wp.details_jsp values(?,?,?,?,?,?,?)");
ps.setString(1,username);
ps.setString(2,password);
ps.setString(3,phonenumber);
ps.setString(4,address);
ps.setString(5,city);
ps.setString(6,state);
ps.setString(7,country);
int r=ps.executeUpdate();
if(r==0)
out.println("failure");
else
result="Admin Registered Successfully";
con.close();}
catch (Exception e)
{
    System.out.println(e);
}
%>

<div style="text-align:center">
    <form action="login.html">
        <h1><%=result%></h1><br>
        <input type="submit" value="Go To registration Page">
    </form><br><br>
</div>

Login.html
<html>
<body>
    <form action="register.jsp" method="get">

```

```

<fieldset style="width:20%; background-color:#ccffeb">
  <h2 align="center">Registration form</h2><hr>
  <table>
    <tr>
      <td>username</td>
      <td><input type="text" name="userName" required /></td>
    </tr>
    <tr>
      <td>password</td>
      <td><input type="password" name="userPass" required /></td>
    </tr>
    <tr>
      <td>phonenumber</td>
      <td><input type="text" name="userMobile" required/></td>
    </tr>
    <tr>
      <td>address</td>
      <td><input type="text" name="userAddress" required/></td>
    </tr>
    <tr>
      <td>city</td>
      <td><input type="text" name="userCity" required/></td>
    </tr>
    <tr>
      <td>state</td>
      <td><input type="text" name="userState" required/></td>
    </tr>
    <tr>
      <td>country</td>
      <td><select name="userCountry" style="width:130px">
        <option>Select a country</option>
        <option>India</option>
        <option>America</option>
        <option>England</option>
        <option>other</option></select>
      </td>
    </tr>
    <tr>
      <td><input type="reset" value="Reset"/></td>
      <td><input type="submit" value="Register"/></td>
    </tr>
  </table>
</fieldset>
</form>
</body>
</html>

```

Registration form

username

password

phonenumber

address

city

state

country

Select a country

Reset

Register

Admin Registered Successfully

	username	password	phonenumber	address	city	state	country
▶	NULL	NULL	NULL	NULL	NULL	NULL	
	NULL	NULL	NULL	NULL	NULL	NULL	
	NULL	NULL	NULL	NULL	NULL	NULL	
	Bhuvana	NULL	7786886546	Kukatpally	Hyderabad	Telangana	
	NULL	NULL	NULL	NULL	NULL	NULL	
	Bhuvana	12345	7786886546	Kukatpally	Hyderabad	Telangana	
	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	Bhuvana	12	7786886546	Kukatpally	Hyderabad	Telangana	India