

**K.S.R. COLLEGE OF ENGINEERING: TIRUCHENGODE - 637 215**

**(Autonomous)**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**LABORATORY MANUAL**

**Sub. Code / Sub. Name: 18CS522 - WEB AND OPEN SOURCE LABORATORY**

**YEAR / SEM : III / V**

**Faculty in-charge**

**HoD**

## LIST OF EXPERIMENTS

S. NO	Name of the Program	Page Nos.
1.	Design a web page for online shopping cart using html.	
2.	Design a web page for multimedia library with CSS and Bootstrap.	
3.	Design an online registration form with JavaScript validation.	
4.	Develop a web application using JDBC or MONGODB.	
5.	Develop a web application using database with AJAX.	
6.	Develop a PHP program to implement the following, a. Variables - Constants - Data Types b. Operators - Statements c. Functions - Arrays	
7.	Construct a PHP program to connect MySQL database and retrieve a record in HTML table.	
8.	Write a PERL program to implement the following a. Variables and Data types - Statements and Control Structures. b. Subroutines - Packages and Modules.	
9.	Develop a login form using PERL and perform a validation.	
10.	Create a PERL program to connect MySQL database and retrieve data.	

EX.NO : 01	<b>Design a webpage for online shopping cart</b>
DATE:	

**Aim:**

To design a webpage for online shopping cart.

**PROGRAM:**

```

<html>
  <head>
    <title>Shopping cart </title>
    <style>
      .product-image {
        float: left;
        width: 20%;
      }
      .product-details {
        float: left;
        width: 37%;
      }
      .product-price {
        float: left;
        width: 12%;
      }
      .product-quantity {
        float: left;
        width: 10%;

```

```

    }
    .product-removal {
        float: left;
        width: 9%;
    }
    .product-line-price {
        float: left;
        width: 12%;
        text-align: right;
    }
    .group:before, .shopping-cart:before, .column-labels:before,
    .product:before, .totals-item:before,
    .group:after,
    .shopping-cart:after,
    .column-labels:after,
    .product:after,
    .totals-item:after {
        content: "";
        display: table;
    }
    .group:after, .shopping-cart:after, .column-labels:after,
    .product:after, .totals-item:after {
        clear: both;
    }
    .group, .shopping-cart, .column-labels, .product, .totals-item {
        zoom: 1;
    }

```

```

        .product .product-price:before, .product .product-line-
price:before, .totals-value:before {
            content: '$';
        }
    body {
        padding: 0px 30px 30px 20px;
        font-family: "HelveticaNeue-Light", "Helvetica Neue Light",
"Helvetica Neue", Helvetica, Arial, sans-serif;
        font-weight: 100;
    }
    h1 {
        font-weight: 100;
    }
    label {
        color: #aaa;
    }
    .shopping-cart {
        margin-top: -45px;
    }
    .column-labels label {
        padding-bottom: 15px;
        margin-bottom: 15px;
        border-bottom: 1px solid #eee;
    }
    .column-labels .product-image, .column-labels .product-details,
.column-labels .product-removal {
        text-indent: -9999px;
    }

```

```

        .product {
            margin-bottom: 20px;
            padding-bottom: 10px;
            border-bottom: 1px solid #eee;
        }
        .product .product-image {
            text-align: center;
        }
        .product .product-image img {
            width: 100px;
        }
        .product .product-details .product-title {
            margin-right: 20px;
            font-family: "HelveticaNeue-Medium", "Helvetica Neue
Medium";
        }
        .product .product-details .product-description {
            margin: 5px 20px 5px 0;
            line-height: 1.4em;
        }
        .product .product-quantity input {
            width: 40px;
        }
        .product .remove-product {
            border: 0;
            padding: 4px 8px;
            background-color: #c66;

```

```

        color: #fff;
        font-family: "HelveticaNeue-Medium", "Helvetica Neue
Medium";
        font-size: 12px;
        border-radius: 3px;
    }
    .product .remove-product:hover {
        background-color: #a44;
    }
    .totals .totals-item {
        float: right;
        clear: both;
        width: 100%;
        margin-bottom: 10px;
    }
    .totals .totals-item label {
        float: left;
        clear: both;
        width: 79%;
        text-align: right;
    }
    .totals .totals-item .totals-value {
        float: right;
        width: 21%;
        text-align: right;
    }
    .totals .totals-item-total {

```

```

        font-family: "HelveticaNeue-Medium", "Helvetica Neue
Medium";
    }
    .checkout {
        float: right;
        border: 0;
        margin-top: 20px;
        padding: 6px 25px;
        background-color: #6b6;
        color: #fff;
        font-size: 25px;
        border-radius: 3px;
    }
    .checkout:hover {
        background-color: #494;
    }
    @media screen and (max-width: 650px) {
        .shopping-cart {
            margin: 0;
            padding-top: 20px;
            border-top: 1px solid #eee;
        }
        .column-labels {
            display: none;
        }
        .product-image {
            float: right;

```



```
width: auto;
}
.product-image img {
margin: 0 0 10px 10px;
}
.product-details {
float: none;
margin-bottom: 10px;
width: auto;
}
.product-price {
clear: both;
width: 70px;
}
.product-quantity {
width: 100px;
}
.product-quantity input {
margin-left: 20px;
}
.product-quantity:before {
content: 'x';
}
.product-removal {
width: auto;
}
.product-line-price {
```

```
        float: right;
        width: 70px;
    }
}

@media screen and (max-width: 350px) {
    .product-removal {
        float: right;
    }

    .product-line-price {
        float: right;
        clear: left;
        width: auto;
        margin-top: 10px;
    }

    .product .product-line-price:before {
        content: 'Item Total: $';
    }

    .totals .totals-item label {
        width: 60%;
    }

    .totals .totals-item .totals-value {
        width: 40%;
    }
}

</style>

</head>

<body>
```

```

<h1>Shopping Cart</h1>
<div class="shopping-cart">
  <div class="column-labels">
    <label class="product-image">Image</label>
    <label class="product-details">Product</label>
    <label class="product-price">Price</label>
    <label class="product-quantity">Quantity</label>
    <label class="product-removal">Remove</label>
    <label class="product-line-price">Total</label>
  </div>
  <div class="product">
    <div class="product-image">
      
    </div>
    <div class="product-details">
      <div class="product-title">Dingo Dog Bones</div>
      <p class="product-description">The best dog bones of all time. Holy crap.
      Your dog will be begging for these things! I got curious once and ate one myself.
      I'm a fan.</p>
    </div>
    <div class="product-price">12.99</div>
    <div class="product-quantity">
      <input type="number" value="2" min="1">
    </div>
    <div class="product-removal">
      <button class="remove-product">
        Remove
      </button>
    </div>
  </div>
</div>

```

```
</div>
```

```
<div class="product-line-price">25.98</div>
```

```
</div>
```

```
<div class="product">
```

```
<div class="product-image">
```

```

```

```
</div>
```

```
<div class="product-details">
```

```
<div class="product-title">Nutro™ Adult Lamb and Rice Dog Food</div>
```

```
<p class="product-description">Who doesn't like lamb and rice? We've all hit the halal cart at 3am while quasi-blackout after a night of binge drinking in Manhattan. Now it's your dog's turn!</p>
```

```
</div>
```

```
<div class="product-price">45.99</div>
```

```
<div class="product-quantity">
```

```
<input type="number" value="1" min="1">
```

```
</div>
```

```
<div class="product-removal">
```

```
<button class="remove-product">
```

```
  Remove
```

```
</button>
```

```
</div>
```

```
<div class="product-line-price">45.99</div>
```

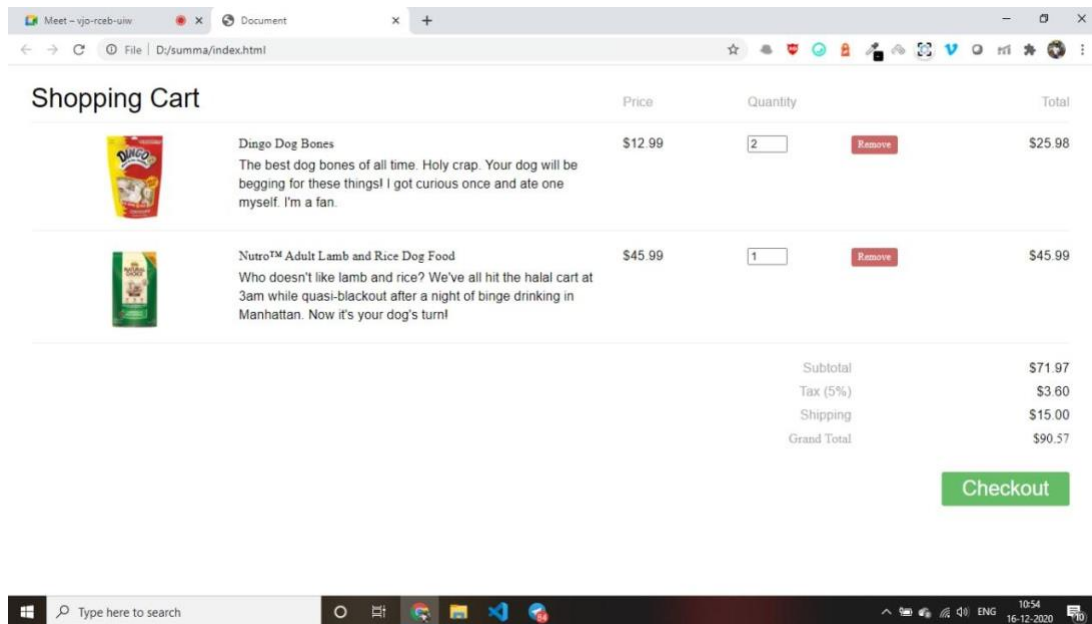
```
</div>
```

```
<div class="totals">
```

```
<div class="totals-item">
  <label>Subtotal</label>
  <div class="totals-value" id="cart-subtotal">71.97</div>
</div>
<div class="totals-item">
  <label>Tax (5%)</label>
  <div class="totals-value" id="cart-tax">3.60</div>
</div>
<div class="totals-item">
  <label>Shipping</label>
  <div class="totals-value" id="cart-shipping">15.00</div>
</div>
<div class="totals-item totals-item-total">
  <label>Grand Total</label>
  <div class="totals-value" id="cart-total">90.57</div>
</div>
</div>

<button class="checkout">Checkout</button>
</div>
</body>
</html>
```

OUTPUT:



Result:

Thus the webpage for online shopping cart was completed successfully.

<b>Ex.No:02</b>	<b>Design a Webpage for multimedia library with CSS and bootstrap</b>
<b>Date:</b>	

**Aim:**

To Design a Webpage for multimedia library with CSS and bootstrap

**Index.html:**

```
<link href="//netdna.bootstrapcdn.com/bootstrap/3.1.0/css/bootstrap.min.css"
rel="stylesheet" id="bootstrap-css">
```

```
<script src="//netdna.bootstrapcdn.com/bootstrap/3.1.0/js/bootstrap.min.js"></script>
```

```
<script src="//code.jquery.com/jquery-1.11.1.min.js"></script>
```

```
<!-- Include the above in your HEAD tag ----->
```

```
<!--
```

Images Credits:

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[https://www.iconfinder.com/icons/71615/tv\\_icon](https://www.iconfinder.com/icons/71615/tv_icon)

```
-->
```

```
<div class="container">
```

```
<div class="row">
```

```
<h2>Mr.M.'s media control buttons</h2>
```

```
<div class="col-md-6 col-md-offset-3">
```

```
<div class="tcenter">
```

```

```

```

```

```

```

```
</div><!-- /.tcenter -->
```

```
<div class="tcenter">
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-fast-backward"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-backward"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-stop"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-play"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-pause"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-forward"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-fast-forward"></i></a>
```

```
</div><!-- /.tcenter -->
```

```
<div class="tcenter">
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-volume-down"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-volume-up"></i></a>
```

```
<a href="#" class="btn btn-default"><i class="glyphicon glyphicon-volume-off"></i></a>
```

```
<hr>
```

```
<a href="http://validator.w3.org/check?uri=http://bootsnipp.com/iframe/V1WP"><span class="glyphicon glyphicon-check green"></span> HTML<sup>5</sup></a>
```



```
</div><!-- /.tcenter -->
```

```
</div><!-- /.col-mid -->
```

```
</div><!-- /.row -->
```

```
</div><!-- /.container -->
```

Style.css:

```
.tcenter{  
padding: 10px;  
text-align:center;  
}
```

```
/* for validator */  
a:link {  
text-decoration:none;  
}
```

```
.green, .green a {  
color: #339900;  
}
```

**Output:**



Multimedia library in bootstrap



**Result:**

Thus web page for multimedia library with CSS and Bootstrap is created successfully.

EX.NO:03	Online registration forms with JavaScript validation.
DATE:	

**Aim:**

To Create the html prage for user interactive and Use java script to perform validation

**PROGRAM:**

```
<html>

<head>

<script>

function valid() {

    var name = document.forms["RegForm"]["Name"];

    var email = document.forms["RegForm"]["EMail"];

    var phone = document.forms["RegForm"]["Telephone"];

    if (name.value=="") {

        window.alert("Please enter your name.");

        name.focus();

        return false;

    }

    else if (email.value == "") {
```

```
        window.alert("Please enter a valid e-mail address.");

        email.focus();

        return false;
    }

    else if (email.value.indexOf("@", 0) < 0) {

        window.alert("Please enter a valid e-mail address.");

        email.focus();

        return false;

    }

    else if (phone.value == "") {

        window.alert("Please enter your telephone number.");

        phone.focus();

        return false;

    }

    location.reload(true);

}</script>

<style>

h1{

color:grey;

font-family:Comic Sans MS;

}

p {
```

```
text-align:center;

color:blue;

}

</style>

</head>

<body>

<h1 style="text-align: center"> Customer care</h1>

<form name="RegForm" method="get" >

<p>Name: <input type="text" size="45" name="Name" placeholder="enter the name"></p><br>

<p>E-mail Address: <input type="text" size="35" name="EMail" placeholder="enter email address"></p><br>

<p>Telephone: <input type="text" size="40" name="Telephone" placeholder="enter phone number"></p><br>

<p>Comments: <textarea cols="35" name="Comment"></textarea></p>

<p><input type="button" value="send" name="Submit" onclick="return valid()"></p>

</form>

</body>

</html>
```

OUTPUT:



A registration form titled "Registration Form For Sports" is displayed on a yellow background. The form contains seven input fields for personal information, each preceded by a label: "Name:", "Sur Name:", "Date Of Birth:", "Address:", "Phone:", "Email:", and "Zip:". Below these fields is a "register" button. The form is presented as a screenshot of a web application, with a subtle drop shadow.

**Registration Form For Sports**

Name:

Sur Name:

Date Of Birth:

Address:

Phone:

Email:

Zip:

Result:

Thus Online registration form with JavaScript validation was created successfully.

<b>EX.NO: 04</b>	<b>Develop a Web Application Using JDBC or MONGODB</b>
<b>Date:</b>	

**Aim:**

To Develop a Web Application Using JDBC or MONGODB.

**PROGRAM:**

**Procedure**

**To start with interfacing Java Servlet Program with JDBC Connection:**

1. Proper JDBC Environment should set-up along with database creation.
2. To do so, download the mysql-connector.jar file from the internet,
3. As it is downloaded, move the jar file to the apache-tomcat server folder,
4. Place the file in lib folder present in the apache-tomcat directory.
5. To start with the basic concept of interfacing:

**Step 1: Creation of Database and Table in MySQL**

As soon as jar file is placed in the folder, create a database and table in MySQL,

```
mysql> create database demoprj;
```

```
Query OK, 1 row affected (4.10 sec)
```

```
mysql> use demoprj
```

```
Database changed
```

```
mysql> create table demo(id int(10), string varchar(20));
```

```
Query OK, 0 rows affected (1.93 sec)
```

```
mysql> desc demo;
```

Field	Type	Null	Key	Default	Extra
id	int(10)	YES		NULL	
string	varchar(20)	YES		NULL	

2 rows in set (0.40 sec)

## Step 2: Implementation of required Web-pages

Create a form in HTML file, where take all the inputs required to insert data into the database.

```
<!DOCTYPE html>

<html>

<head>

<title>Insert Data</title>

</head>

<body>

<!-- Give Servlet reference to the form as an instances

GET and POST services can be according to the problem statement-->

<form action="./InsertData" method="post">

<p>ID:</p>

<!-- Create an element with mandatory name attribute,

so that data can be transfer to the servlet using getParameter() -->

<input type="text" name="id"/>

<br/>

<p>String:</p>
```



```
<input type="text" name="string"/>
```

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

```
<input type="submit"/>
```

```
</form>
```

```
</body>
```

```
</html>
```

### **Step 3: Creation of Java Servlet program with JDBC Connection**

To create a JDBC Connection steps are

1. Import all the packages
2. Register the JDBC Driver
3. Open a connection
4. Execute the query, and retrieve the result
5. Clean up the JDBC Environment

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.SQLException;
```

```
// This class can be used to initialize the database connection
```

```
public class DatabaseConnection {
```

```
protected static Connection initializeDatabase()
```

```
throws SQLException, ClassNotFoundException
```

```
{
```

```
// Initialize all the information regarding
```

```
// Database Connection
```

```
String dbDriver = "com.mysql.jdbc.Driver";
```

```
String dbURL = "jdbc:mysql://localhost:3306/";
```

```
// Database name to access
```

```

String dbName = "demoprj";

String dbUsername = "root";

String dbPassword = "root";

Class.forName(dbDriver);

Connection con = DriverManager.getConnection(dbURL + dbName, dbUsername, dbPassword);

return con;

}

}

```

#### **Step 4: To use this class method, create an object in Java Servlet program**

```

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

// Import Database Connection Class file

import code.DatabaseConnection;

// Servlet Name

@WebServlet("/InsertData")

public class InsertData extends HttpServlet {

    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request,

```

```

HttpServletResponse response)
throws ServletException, IOException
{
try {

// Initialize the database

Connection con = DatabaseConnection.initializeDatabase();

// Create a SQL query to insert data into demo table
// demo table consists of two columns, so two '?' is used
PreparedStatement st = con
.prepareStatement("insert into demo values(?, ?)");

// For the first parameter,
// get the data using request object
// sets the data to st pointer
st.setInt(1, Integer.valueOf(request.getParameter("id")));

// Same for second parameter
st.setString(2, request.getParameter("string"));

// Execute the insert command using executeUpdate()
// to make changes in database
st.executeUpdate();

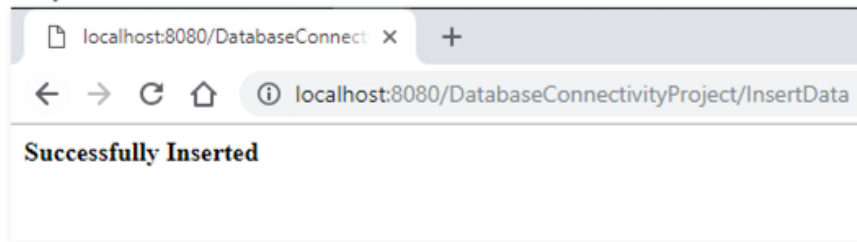
// Close all the connections
st.close();
con.close();

// Get a writer pointer
// to display the successful result

```

```
PrintWriter out = response.getWriter();  
out.println("<html><body><b>Successfully Inserted"  
+ "</b></body></html>");  
}  
catch (Exception e) {  
e.printStackTrace();  
}  
}  
}
```

### Output:



### Result in MySQL Interface

```
mysql> select * from demo;
+-----+-----+
| id   | string |
+-----+-----+
| 1    | Kumar  |
+-----+-----+
1 row in set (0.06 sec)
```

### Result

Thus the web page using JDBC was created successfully

EX.NO:05	Develop a web application using database with AJAX
DATE:	

**Aim:**

To construct a web application using database with AJAX

**PROGRAM:**

**table1.html**

```

<html>

<head>

<script>

var request;

function sendInfo()

{

var v=document.vinform.t1.value;

var url="index.jsp?val="+v;


if(window.XMLHttpRequest){

request=new XMLHttpRequest();

}

else if(window.ActiveXObject){

request=new ActiveXObject("Microsoft.XMLHTTP");

}

```

```
try{  
  
request.onreadystatechange=getInfo;  
  
request.open("GET",url,true);  
  
request.send();  
  
}catch(e){alert("Unable to connect to server");}  
  
}
```

```
function getInfo(){  
  
if(request.readyState==4){  
  
var val=request.responseText;  
  
document.getElementById('amit').innerHTML=val;  
  
}  
  
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<marquee><h1>This is an example of ajax</h1></marquee>
```

```
<form name="vinform">
```

```
Enter id:<input type="text" name="t1" onkeyup="sendInfo()">
```

```
</form>
```

```
<span id="amit"></span>
```

```
</body>
```

```
</html>
```

create server side page to process the request

In this jsp page, we printing the id and name of the employee for the given id.

### **index.jsp**

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

```
<%
```

```
String s=request.getParameter("val");
```

```
if(s==null || s.trim().equals("")){
```

```
out.print("Please enter id");
```

```
}else{
```

```
int id=Integer.parseInt(s);
```

```
out.print(id);
```

```
try{
```

```
Class.forName("com.mysql.jdbc.Driver");
```

```
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/mdb","root","root");
```



```
PreparedStatement ps=con.prepareStatement("select * from emp where id=?");

ps.setInt(1,id);

ResultSet rs=ps.executeQuery();

while(rs.next()){

out.print(rs.getInt(1)+" "+rs.getString(2));

}

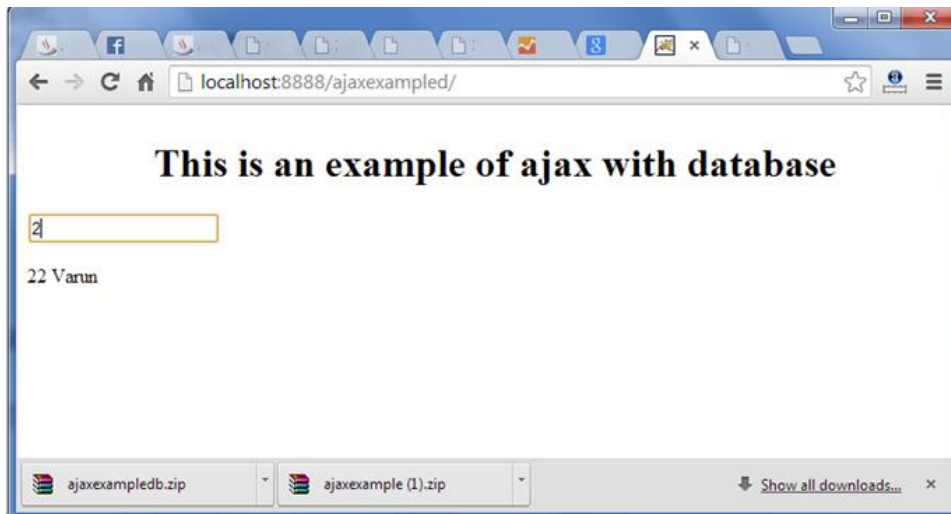
con.close();

}catch(Exception e){e.printStackTrace();}

}
```

%>

## Output



## **Result**

Thus the web application using AJAX with database connectivity was created successfully.

<b>Ex.No: 06</b>	<b>PHP PROGRAMS</b>
<b>Date:</b>	

### **AIM:**

Develop a PHP program to implement the following,

a.Variables-Constants-Data Types

b.Operators-Statements

c.Functions-Arrays

### **PHP Datatypes:**

#### **Example:**

```
<?php
echo PHP_INT_MAX;

?>
```

#### **Output:**

9223372036854775807

## **PHP Variable:**

#### **Example:**

```
<?php
$my_var = 1;
echo $my_var;

?>
```

#### **Output:**

1

### **PHP if statement:**

Example:

```
<?php
```

```

        $t = date("H");
        if ($t < "20") {
            echo "Have a good day!";
        }
    ?>

```

**Output:**

Have a good day!

**PHP if...else statement:**

```

<?php
    $t = date("H");

    if ($t < "20") {
        echo "Have a good day!";
    } else {
        echo "Have a good night!";
    }
?>

```

**OUTPUT:**

Have a good day!

**PHP if...elseif...else statement**

```

<?php
    $t = date("H");
    echo "<p>The hour (of the server) is " . $t;
    echo ", and will give the following message:</p>";

    if ($t < "10") {

```

```
        echo "Have a good morning!";
    } elseif ($t < "20") {
        echo "Have a good day!";
    } else {
        echo "Have a good night!";
    }
?>
```

**Output:**

The hour (of the server) is 10, and will give the following message:  
Have a good day!

**PHP FUNCTIONS:**

```
<?php
    function writeMsg() {
        echo "Hello world!";
    }

    writeMsg();
?>
```

**OUTPUT:**

Hello world!

**PHP Arrays:**

An array is a special variable, which can hold more than one value at a time.

Example:

```
<?php
    $cars = array("Volvo", "BMW", "Toyota");
    echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
?>
```

**Output:**

I like Volvo, BMW and Toyota.

**Result:**

Thus the PHP program was executed successfully.

<b>EX.NO:07</b>	<b>PHP program to connect MySQL DB and retrieve a record in HTML table</b>
<b>DATE:</b>	

**Aim:**

To construct a PHP program to connect MySQL DB and retrieve a record in HTML table.

**PROGRAM:**

```
//UserData.html<?xml version="1.0" encoding="ISO-8859-1"?>
<html xmlns="http://www.w3.org/1999/xhtml">
<body>
<h3> Program to collect the customer-information </h3>
<form action ="Display.php" method="get">
<table border="5">
<tr><td> Enter Name:</td>
<td><input type="text" name="name"></td>
</tr><tr><td> Enter Address Line1: </td>
<td><input type="text" name="address1"></td>
</tr>
<tr><td> Enter Address line2: </td>
<td><input type="text" name="address2"></td>
</tr>
<tr><td> Enter Email-id: </td>
<td><input type="text" name="email"></td>
</tr><tr><td></td></tr><tr><td>
<input type="submit" value="Submit"></td>
<td><input type="Reset" value="Reset"></td></tr></br>
<a href="https://krazytech.com/programs/simple-library-management-system-
php-mysql" target="_blank" rel="noopener">Search.html</a>">
To search click here </a></td></table>
</form>
</body>
```



</html>

**PHP CODE:**

```
//Display.php<html>
<head><title> Display.php </title>
</head><body bgcolor="aabbcc">
<?php$name1=$_REQUEST["name"];
$address1=$_REQUEST["address1"];
$address2=$_REQUEST["address2"];
$email=$_REQUEST["email"];
define('DB_SERVER', 'localhost:3306');
define('DB_USERNAME', 'root');
define('DB_PASSWORD', 'root123');
define('DB_DATABASE', 'customers');

//where customers is the database$db =
mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

$query= "insert into address values('$name1','$address1','$address2','$email')";

//to insert input records into a table - address$enter=
mysqli_query($db,$query);$query="select * from address";

// Fetch all the records from the table address$result=mysqli_query($db,$query);
?>

<h3> Page to display the stored data </h3>

<table border="1">
<tr><th> NAME </th><th> ADDRESS Line1 </th>
<th> ADDRESS Line2 </th><th> EMAIL-id </th>
</tr>
<?php while($array=mysqli_fetch_row($result)) ?>
<tr><td><?echo $array[0];?></td>
<td><?echo $array[1];?></td>
<td><?echo $array[2];?></td><td><?echo $array[3];?></td>
</tr><?php endwhile; ?>
<?php mysqli_free_result($result); ?>
<?php mysqli_close($db); ?></table>
```

</body>

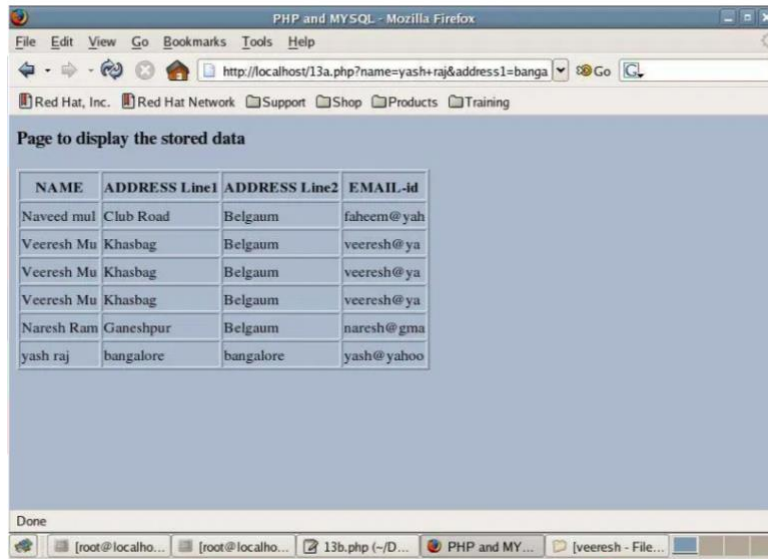
</html>

**Output:**

The following image shows how the UserData.html looks on the browser:

The screenshot shows a Mozilla Firefox browser window. The title bar says 'Mozilla Firefox'. The menu bar includes 'File', 'Edit', 'View', 'Go', 'Bookmarks', 'Tools', and 'Help'. The address bar shows 'http://localhost/13.html' with a 'Go' button. Below the address bar, there are several bookmarks: 'Red Hat, Inc.', 'Red Hat Network', 'Support', 'Shop', 'Products', and 'Training'. The main content area displays a web form titled 'Program to collect the customer-information'. Above the form, there is a link 'To search click here'. The form has four input fields: 'Enter Name:' with 'yash raj', 'Enter Address Line1:' with 'bangalore', 'Enter Address line2:' with 'bangalore', and 'Enter Email-id:' with 'yash@yahoo.com'. Below the input fields are two buttons: 'Submit' and 'Reset'. At the bottom of the browser window, there is a status bar that says 'Done'.

The following image shows how the Display.php looks on the browser:



### Result:

PHP program to connect MySQL database and retrieve a record in HTML table was created successfully.

EX.NO: 08 a)	PERL PROGRAMS Variables and Data types - Statements and Control
DATE:	Structures

**Aim:**

To create a PERL programs using Variables and Data types - Statements and Control Structures

**Programs**

#!/usr/bin/perl # the above line is shebang directive

```
$name=<STDIN>;
```

```
chomp($name);
```

```
print "$name\n";
```

**output:**

```
[linuxpert@localhost ~]$ perl first.pl
```

```
gokul
```

```
gokul
```

**2. Array in PERL**

```
#!/usr/bin/perl
```

```
my @animal=("cow","Buffalo","Camel");
```

```
print "@animal\n"; # list all elements in array
```

```
print "$#animal\n"; # list last element position
```

```
print "$animal[0]\n"; #list 0th position element
```

```
$count=@animal;
```

```
print "$count"; # count no of elements in array
```

**output:**

```
[linuxpert@localhost ~]$ perl array.pl
```

```
cow Buffalo Camel
```

```
2cow
```

```
3
```

**3.If loop in perl**

```
#!/usr/bin/perl
```

```
my $a=10;
```

```
$condition=1;
```

```
if($condition)
```

```
{
```

```
my $y=100;
```

```
print "$a\n";
```

```
print "$y\n";
```

```
}
```

```
print "$a\n";
```

```
print "$y\n";
```

**output:**

```
[linuxpert@localhost ~]$ perl ifloop.pl
```

```
10
```

100

10

#### **4. While loop (until) in perl**

```
#!/usr/bin/perl
```

```
$a=0;
```

```
until($a>10) #is equal to while
```

```
{
```

```
print "$a\n";
```

```
$a++;
```

```
}
```

**out put:**

```
[linuxpert@localhost ~]$ perl unless.pl
```

```
a less than 10[linuxpert@localhost ~]$ perl until.pl
```

```
0 1 2 3 4 5 6 7 8 9 10
```

#### **5. for each loop (upper limit is not fixed )in perl**

```
#!/usr/bin/perl
```

```
my @animals=("cow","buffalo","camel",123,100,243,300);
```

```
foreach $key(@animals)
```

```
{
```

```
print "$key\n";
```

```
}
```

**output:**

```
[linuxpert@localhost ~]$ perl foreach.pl
```

```
cow
```

```
buffalo
```

```
camel
```

```
123
```

```
100
```

```
243
```

```
300
```

## 6. String operation:

```
#!/usr/bin/perl
```

```
$a="hello";
```

```
$b="world";
```

```
print $a.$b,"\n";
```

```
$str="-";
```

```
print $str x 80,"\n";
```

```
@a=(10..25);
```

```
print "@a\n";
```

## output

```
[linuxpert@localhost ~]$ perl string.pl
```

```
helloworld
```

```
-----/n10 11
```

12 13 14 15 16 17 18 19 20 21 22 23 24 25

**Result:**

Thus Perl Programs using Variables and Data types - Statements and Control Structures was executed successfully



EX.NO: 08 b)	PERL PROGRAMS Subroutines - Packages
DATE:	

### Aim:

To create a PERL programs using Subroutines - Packages

### Subroutines

```
#!/usr/bin/perl

sub sayHello()

{

print "Hello\n";

}

&sayHello();
```

### output:

```
[linuxpert@localhost ~]$ perl function.pl
```

```
Hello
```

### Packages

```
#Greatest among 3 number
```

```
Live Demo
```

```
#!/usr/bin/perl
```

```
package Foo;  
  
print "Begin and Block Demo\n";
```

```
BEGIN {  
    print "This is BEGIN Block\n"  
}
```

```
END {  
    print "This is END Block\n"  
}
```

```
1;
```

**output:**

```
This is BEGIN Block  
Begin and Block Demo  
This is END Block
```

**Result:**

Thus Perl Programs for subroutines and packages was executed successfully

EX.NO:09	Login form using perl and perform a validation
DATE:	

### Aim:

To develop a login form using perl and perform a validation.

### PROGRAM:

#### HTML code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<htmlxmlns="http://www.w3.org/1999/xhtml">
<head>
<metahttp-equiv="Content-Type"content="text/html; charset=utf-8"/>
<title>Very simple login using Perl, jQuery, Ajax, JSON and MySQL</title>
<linkrel="stylesheet"type="text/css"media="screen, projection"
href="http://www.blueprintcss.org/blueprint/screen.css"/>
<linkrel="stylesheet"type="text/css"media="screen, projection"
href="http://www.blueprintcss.org/blueprint/plugins/buttons/screen.css"/>
<linkrel="stylesheet"type="text/css"media="print"
href="http://www.blueprintcss.org/blueprint/print.css"/>
<!--[if IE]><link rel="stylesheet" type="text/css" media="screen, projection"
href="http://www.blueprintcss.org/blueprint/ie.css"><![endif]-->
<scripttype="text/javascript"
src="//code.jquery.com/jquery-1.4.4.min.js"></script>
<script type="text/javascript" src="login.js"></script>
<styletype="text/css">
#loginContent { width: 350px; margin: 100px auto; }
```

```

button[type] { margin: 0.5em 0; }

</style>

</head>

<body>

<div id="loginContent" class="container">

<div id="loginResult" style="display:none;">

</div>

<form id="loginForm" name="loginForm" method="post" action="">

<fieldset>

<legend>Enter information</legend>

<p>

<label for="username">Username</label>

<br/>

<input type="text" id="username" name="username" class="text" size="20"/>

</p>

<p>

<label for="password">Password</label>

<br/>

<input type="password" id="password" name="password" class="text" size="20"/>

</p>

<p>

<button type="submit" class="button positive">

<img alt="ok" src=

"http://www.blueprintcss.org/blueprint/plugins/buttons/icons/tick.png"/>

Login

</button>

</p>

</fieldset>

</form>

</div>

```

```
</body>
</html>
```

### JS code:

```
$(document).ready(function(){
    $("form#loginForm").submit(function() { // loginForm is submitted
        var username = $('#username').attr('value'); // get username
        var password = $('#password').attr('value'); // get password
        if (username && password) { // values are not empty
            $.ajax({
                type: "GET",
                url: "/cgi-bin/login.pl", // URL of the Perl script
                contentType: "application/json; charset=utf-8",
                dataType: "json",
                // send username and password as parameters to the Perl script
                data: "username=" + username + "&password=" + password,
                // script call was *not* successful
                error: function(XMLHttpRequest, textStatus, errorThrown) {
                    $('#div#loginResult').text("responseText: " + XMLHttpRequest.responseText
                    + ", textStatus: " + textStatus
                    + ", errorThrown: " + errorThrown);
                    $('#div#loginResult').addClass("error");
                }, // error
                // script call was successful
                // data contains the JSON values returned by the Perl script
                success: function(data){
                    if (data.error) { // script returned error
                        $('#div#loginResult').text("data.error: " + data.error);
```

```

$('#div#loginResult').addClass("error");
} // if
else { // login was successful
$('#form#loginForm').hide();
$('#div#loginResult').text("data.success: " + data.success
+ ", data.userid: " + data.userid);
$('#div#loginResult').addClass("success");
} //else
} // success
}); // ajax
} // if
else {
$('#div#loginResult').text("enter username and password");
$('#div#loginResult').addClass("error");
} // else
$('#div#loginResult').fadeIn();
return false;
});
});

```

### **PERL code:**

```

#!/usr/bin/perl -T
use CGI;
use DBI;
use strict;
use warnings;
# read the CGI params
my $cgi = CGI->new;
my $username = $cgi->param("username");

```

```

my $password = $cgi->param("password");

# connect to the database
my $dbh = DBI->connect("DBI:mysql:database=;host=;port=",
"", "")
or die $DBI::errstr;

# check the username and password in the database
my $statement = qq{SELECT id FROM users WHERE username=? and password=?};
my $sth = $dbh->prepare($statement)
or die $dbh->errstr;
$sth->execute($username, $password)
or die $sth->errstr;
my ($userID) = $sth->fetchrow_array;

# create a JSON string according to the database result
my $json = ($userID) ?
qq{{"success" : "login is successful", "userid" : "$userID"}} :
qq{{"error" : "username or password is wrong"}};

# return JSON string
print $cgi->header(-type => "application/json", -charset => "utf-8");
print $json;

```

OUTPUT :

```
{"success" : "login is successful", "userid" : "1"}
```

Result:

Thus a Login form using Perl and perform a validation was created successfully.



<b>EX.NO:10</b>	<b>Perl program to connect MySQL DB &amp; retrieve data.</b>
<b>DATE:</b>	

**Aim:**

To create a PERL program to connect MySQL DB & retrieve data.

**PROGRAM:**

```
$ vi connect.pl
#!/usr/bin/perl
use DBI;

$source = "DBI:mysql:mycompany:localhost";
$username = "root";
$password = "MySecretPassword";

$dbc = DBI->connect($source, $username, $password)
or die "Unable to connect to mysql: $DBI::errstr\n";

$sql = $dbc->prepare("select id, name from employee");
$out = $sql->execute()or die "Unable to execute sql: $sql->errstr";

while (($id, $name) = $sql->fetchrow_array()){
    print "Id: $id Name: $name\n";
}
```

**OUTPUT :**

```
$ ./connect.plId: 100 Name: ThomasId: 200 Name: JasonId: 300 Name: SanjayId: 400 Name: Nishald: 500 Name:
RandyId: 501 Name: Ritu
```

**Result:**

Thus Perl program was connected to MYSQL and the data is retrieved.

