1. Develop and demonstrate a XHTML document that illustrates the use external style sheet, ordered list, table, borders, padding, color, and the tag.

index.xhtml

```
<! DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
 <head>
   <title>Program One</title>
   <link rel="stylesheet" href="style.css" />
 </head>
 <body>
   <h3>Ordered List</h3>
   \langle ol \rangle
     Mercury
     Venus
     Earth
     Mars
   </01>
   <h3>Table</h3>
   USN
      Name
      Email
     \langle tr \rangle
      CA172001
      Bruce
      bruce@gmail.com
     CA172002
      Natasha
      nat@gmail.com
     \langle tr \rangle
      CA172003
      Stark
      td>tony@stark.com
```

```
<h3>Borders</h3>
     I have a simple border!
     I have a dashed border!
     I have a dotted border!
    <h3>Padding</h3>
    I have a padding.
    <h3>Color</h3>
    I am colorful text.
  </body>
</html>
style.css
body{
  font-family: Arial, Helvetica, sans-serif;
}
.sb{
  border: 1px solid #555555;
}
.db{
  border: 1px dashed #555555;
}
.dotb{
  border: 1px dotted #555555;
.padded{
  padding: 1em;
  background-color: #888888;
  color: #eeeeee;
}
.colored{
  background-color: #2494d4;
```

color: #dddddd;

}

Ordered List

- 1. Mercury
- 2. Venus
- 3. Earth
- 4. Mars

Table

USN	Name	Email	
CA172001	Bruce	bruce@gmail.com	
CA172002	Natasha	nat@gmail.com	
CA172003	Stark	tony@stark.com	

Borders

I have a simple border!

I have a dashed border!

I have a dotted border!

Padding

I have a padding.

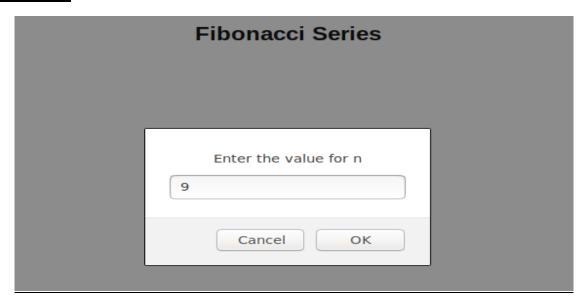
Color

l am colorful text.

2. Develop and demonstrate a XHTML file that includes Javascript script for obtaining n through prompt and computing n Fibonacci numbers

index.xhtml

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
  <head>
     <title>Program Two</title>
  </head>
  <body style="text-align:center; font-family: Arial">
     <h2>Fibonacci Series</h2>
     <div></div>
     <script src="script.js"></script>
  </body>
</html>
script.js
var fib0 = 0,
  fib1 = 1,
  div = document.getElementsByTagName('div')[0],
  n;
n = prompt("Enter the value for n", "2");
div.innerHTML = fib();
function fib(){
  let fibonacci = [fib0, fib1];
  if(n \le 1)
     return fibonacci;
  }else{
     for(let i = 2; i < n; i++){
       fibn = fib0 + fib1;
       fib0 = fib1:
       fib1 = fibn;
       fibonacci.push(fibn);
  }
  return fibonacci;}
```



Fibonacci Series

0,1,1,2,3,5,8,13,21

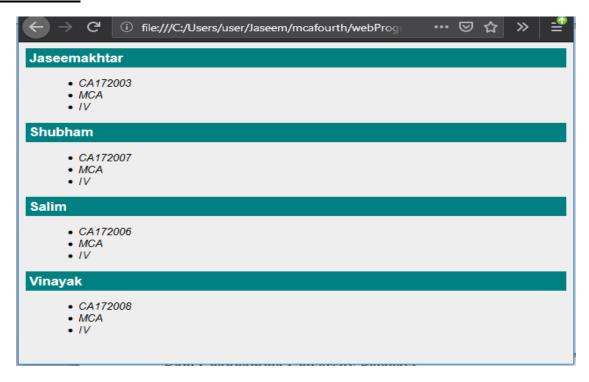
3. Design an XML document to store information about a student.

students.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type = "text/xsl" href = "main.xslt"?>
<rcu>
  <student>
    <name>Jaseemakhtar</name>
    <usn>CA172003</usn>
    <course>MCA</course>
    <sem>IV</sem>
  </student>
  <student>
    <name>Shubham</name>
    <usn>CA172007</usn>
    <course>MCA</course>
    <sem>IV</sem>
  </student>
  <student>
    <name>Salim</name>
    <usn>CA172006</usn>
    <course>MCA</course>
    <sem>IV</sem>
  </student>
  <student>
    <name>Vinayak</name>
    <usn>CA172008</usn>
    <course>MCA</course>
    <sem>IV</sem>
  </student>
</rcu>
```

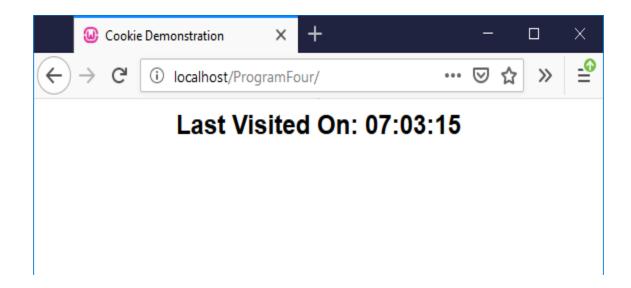
main.xslt

OUTPUT:



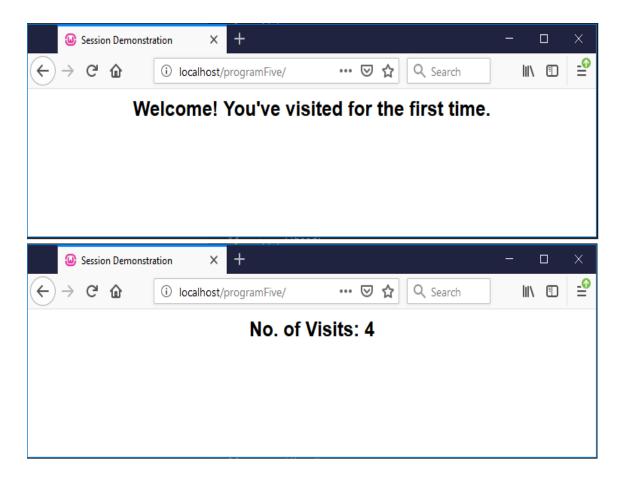
4. Write a PHP program to store current date-time in a COOKIE and display the "Last visited on" date-time on the web page upon reopening of the same page.

```
<?php
  $cookie_name = "lastVisited";
  $cookie_value = date("h:m:s",time());
  \text{$expiry = time() + (60 * 60 * 2); //Will expire after 2 hours}
  setcookie($cookie_name, $cookie_value, $expiry, "/");
?>
<html>
  <head>
     <style>
       body{
         font-family: Arial;
     </style>
     <title>Cookie Demonstration</title>
  </head>
  <body>
     <?php
    if(!isset($_COOKIE[$cookie_name])) {
       echo "<h2><center>Welcome! You've visited for the first time.</center></h2>";
     } else {
       echo "<h2><center>Last Visited On: " . $_COOKIE[$cookie_name] . "</center></h2>";
     ?>
  </body>
</html>
```



5. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.

```
<?php
  session_start();
  counter = 1;
  $session_name = "pageCount";
?>
<html>
  <head>
    <style>
       body{
         font-family: Arial;
    </style>
    <title>Session Demonstration</title>
  </head>
  <body>
    <?php
       if(isset($_SESSION[$session_name])) {
         $counter = $_SESSION[$session_name];
         $ SESSION[$session name] = ++$counter;
         echo "<h2><center>No. of Visits: " . $_SESSION[$session_name] . "</center></h2>";
       } else {
         $_SESSION[$session_name] = $counter;
         echo "<h2><center>Welcome! You've visited for the first time.</center></h2>";
    ?>
  </body>
</html>
```



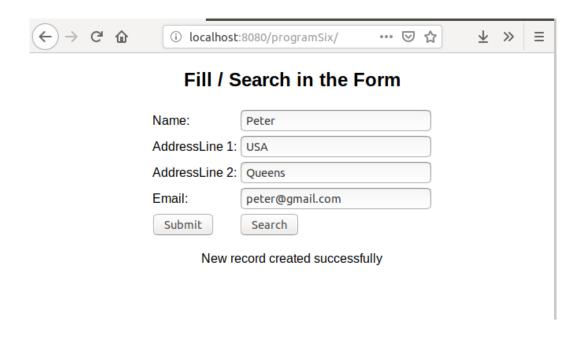
6. Create a XHTML form with Name, Address Line 1, Address Line 2, and E-mail text fields. On submitting, store the values in MySQL table. Retrieve and display the data based on Name.

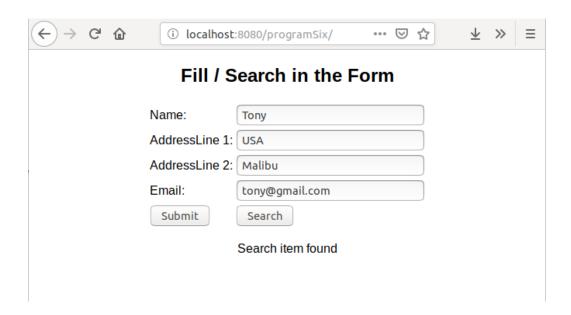
```
<?php
  $servername = "localhost";
  $username = "root";
  $password = "root";
  $conn = mysqli_connect($servername, $username, $password);
  if (!$conn) {
     die("Connection failed: " . mysqli_connect_error());
  ne = addr1 = addr2 = email = FALSE;
  $msg = FALSE;
    if(isset($_POST["btn_submit"])){
       ne = POST["name"];
       $addr1 = $ POST["address one"];
       $addr2 = $_POST["address_two"];
       $email = $_POST["email"];
       $sql = "INSERT INTO programsix.details (name, address_one, address_two, email)
VALUES (". $name ."', " . $addr1 . "', " . $addr2. "', ". $email ."')";
       if (mysqli query($conn, $sql)) {
         $msg = "New record created successfully";
         $msg = "Error: " . $sql . "<br/>' . $conn->error;
     }else if(isset($_POST["btn_search"])){
       $name = $_POST["name"];
       $sql = "select * from programsix.details where name = \"". $name . "\"";
       $result = mysqli_query($conn, $sql);
       if (mysqli num rows(\$result) > 0) {
         while($row = mysqli fetch assoc($result)) {
         $addr1 = $row["address one"];
         $addr2 = $row["address_two"];
         $email = $row["email"];
       }else{
         $msg = "No results found.";
       mysqli_close($conn);
```

```
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Web Programs</title>
  <style>
    body, table{
      font-family: Arial, sans-serif;
      text-align: center;
      margin: 0 auto;
    td{
      text-align: left;
  </style>
</head>
<body>
  <h2>Fill / Search in the Form</h2>
  <form action="" method="post">
    Name:
        <input type="text" name="name" <?php if($name){echo 'value = "'. $name . ""; }
?>/>
      AddressLine 1:
        <input type="text" name="address_one" <?php if($addr1){echo 'value = "'.
$addr1 . "";}?> <?php ?> />
      AddressLine 2:
        <input type="text" name="address_two" <?php if($addr2){echo 'value = "'.
$addr2 . "";} ?>/>
      Email: 
        <input type="email" name="email" <?php if($email){echo 'value = "'. $email .
"";} ?>/>
      <input type="submit" name="btn_submit" value="Submit" />
```

```
<input type="submit" name="btn_search" value="Search" />

</form>
<?= $msg ?>
</body>
</html>
```





7. Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

index.php

connection.html

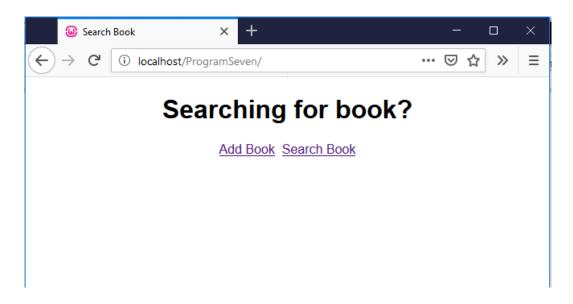
```
<?php
    $server = "localhost";
    $username = "root";
    $password = "root";
    $conn = mysqli_connect($server, $username, $password);
    if (!$conn) {
        die("Connection failed: " . $conn->connect_error);
    }
?>
```

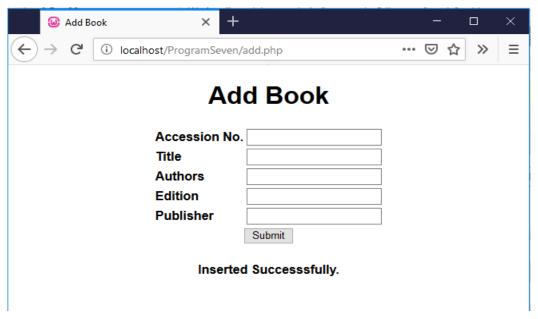
add.php

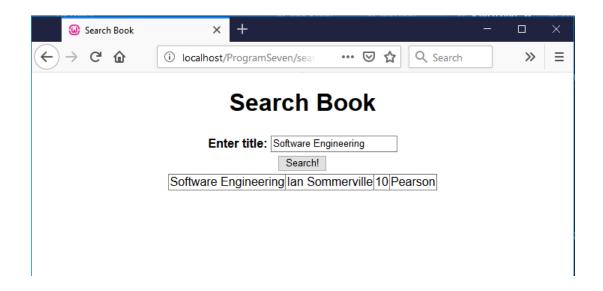
```
<?php
 include('connection.php');
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Add Book</title>
 <style>
   *{
     font-family: Arial;
   table{
     text-align: left;
 </style>
</head>
<body>
 <h1><center>Add Book</center></h1>
 <div>
   <center>
   <form action="add.php" method="post">
     Accession No.
         <input type="text" name="accession_no">
       Title
         <input type="text" name="title">
       Authors
         <input type="text" name="authors">
       Edition
         <input type="text" name="edition">
       Publisher
         <input type="text" name="publisher">
```

```
colspan="2"
                                        style="text-align:center;"><input
                                                                              type="submit"
            <td
name="submit add" value="Submit">
         </form>
     <?php
         if(isset($_POST['submit_add'])){
              $accessionno = $_POST['accession_no'];
              $title = $_POST['title'];
              $authors = $ POST['authors'];
              $edition = $_POST['edition'];
              $publisher = $ POST['publisher'];
              $sql = "INSERT INTO mcafourth.programseven (title, acession_no, authors,
edition, publishers) VALUES (" . $title ."', " . $accessionno . "', " . $authors. "', ". $edition . "',
"". $publisher . "')";
              if(mysqli_query($conn, $sql)){
                echo "<h4> Inserted Successsfully. </h4> ";
                echo "<h4> Failed to insert [ ". mysqli error($conn) . " ]</h4> ";
         }
         mysqli_close($conn);
     ?>
     </center>
  </div>
</body>
</html>
search.php
<?php
  include('connection.php');
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Search Book</title>
  <style>
     *{
       font-family: Arial;
     .tab, .tab td{
```

```
border: 1px solid #777;
    .tab{
      border-collapse: collapse;
  </style>
</head>
<body>
  <h1><center>Search Book</center></h1>
  <div>
    <center>
      <form action="search.php" method="post">
        Enter title: 
            <input type="text" name="title">
          colspan="2"
                                    style="text-align:center;"><input
                                                                     type="submit"
            <td
name="submit_search" value="Search!">
          </form>
      <?php
        if(isset($_POST['submit_search'])){
          if(isset($_POST['title'])){
            $title = $_POST['title'];
            $sql = "SELECT title, authors, edition, publisher from mcafourth.programseven
where title = '$title' ";
            $result = mysqli_query($conn, $sql);
            if (mysqli_num_rows($result) > 0) {
              while($row = mysqli_fetch_assoc($result)) {
                echo "" . $row['title'] ."" .
$row['authors'] . "" . $row['edition'] . "" . $row['publishers'] .
">(table>";
            }else{
              echo "<h3> No records found. </h3> ";
          }
        mysqli_close($conn);
    </center>
  </div>
</body></html>
```







8. Develop a COMPANY database browser application. The initial Web page in this application lists all the departments in the company. By following hyperlinks, the user may see more details of departments, employees, and projects in three separate Web pages. Implement the browser program using four PHP scripts: (a) companyBrowse.php: This script lists all the departments in the company in a tabular form (b) deptView.php: (c) empView.php: (d) projectView.php.

connection.php

```
<?php
    $server = "localhost";
    $username = "root";
    $password = "root";
    $conn = mysqli_connect($server, $username, $password);
    if (!$conn) {
        die("Connection failed: " . $conn->connect_error);
    }
}
```

index.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>The Boring Company</title>
</head>
<body>
  <h1>Boring Company Database</h1>
  <h3>Departments</h3>
  \langle ul \rangle
    <h4><a href="deptView.php?dep=1">Information Department</a></h4>
    <h4><a href="deptView.php?dep=2">Sales Department</a></h4>
    <h4><a href="deptView.php?dep=3">Operations Department</a></h4>
    <h4><a href="deptView.php?dep=4">R&amp;D Department</a></h4>
  </body>
</html>
```

empView.php

```
<?php
  dep = GET['id'];
  if(\text{sdep} == 1)
    $deptName = "Information Department";
  else if($dep == 2)
    $deptName = "Sales Department";
  else if($dep == 3)
    $deptName = "Operations Department";
  else
    $deptName = "Research & Development Department";
  $projects = array();
  include('connection.php');
  $sql = "SELECT id, fname, lname, depId FROM programeight.employee WHERE depId =
$dep";
  $result = mysqli_query($conn, $sql);
  if(mysqli_num_rows(\$result) > 0){
    while($row = mysqli_fetch_assoc($result)){
       projects[] = row;
  }
  mysqli_close($conn);
<!DOCTYPE html>
<html lang="en">
<head>
  <title><?= $deptName ?></title>
  <style>
    table, td, th{
       border-collapse: collapse;
       border: 1px solid #ddd;
    }
  </style>
</head>
<body>
  <h1>Boring Company Database</h1>
  <h3><?= $deptName . "'s Employees" ?></h3>
```

```
<th>Id</th>
      First Name
      Last Name
      Department Id
    <?php
      for(\$i = 0; \$i < count(\$projects); \$i++)
        echo '';
        echo "" . $projects[$i]['id'] . " ";
        echo "" . $projects[$i]['fname'] . " ";
        echo "" . $projects[$i]['lname'] . " ";
        echo "" . $projects[$i]['depId'] . " ";
        echo '';
    ?>
  </body>
</html>
deptView.php
<?php
  dep = GET['dep'];
  if(\text{sdep} == 1)
    $deptName = "Information Department";
  else if($dep == 2)
    $deptName = "Sales Department";
  else if($dep == 3)
    $deptName = "Operations Department";
  else
    $deptName = "Research & Development Department";
  $employees = $projects = ";
  include('connection.php');
  $sqlP = "SELECT count(*) AS projects FROM programeight.project WHERE dep = $dep";
  $sqlE = "SELECT count(*) AS employees FROM programeight.employee WHERE depId =
$dep";
```

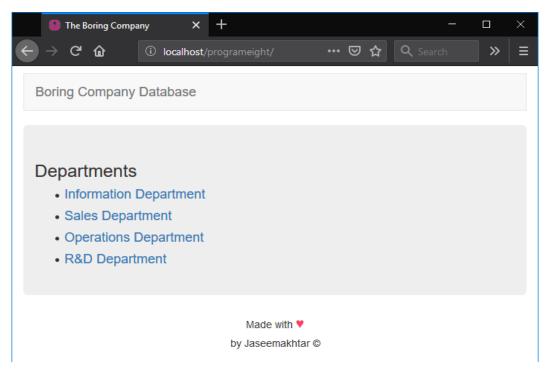
\$result = mysqli_query(\$conn, \$sqlP);

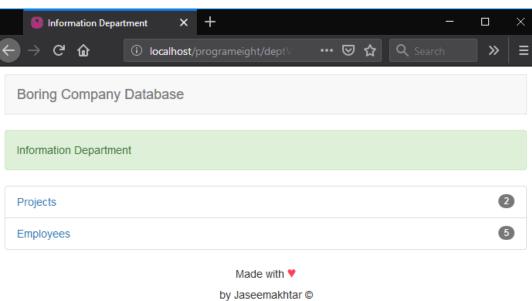
```
if(mysqli_num_rows(\$result) > 0){
    while($row = mysqli_fetch_assoc($result)){
      $projects = $row['projects'];
  }
  $result = mysqli_query($conn, $sqlE);
  if(mysqli_num_rows(sresult) > 0)
    while($row = mysqli fetch assoc($result)){
      $employees = $row['employees'];
  }
  mysqli_close($conn);
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <title><?= $deptName ?></title>
</head>
<body>
  <h1>Boring Company Database</h1>
  <h3><?= $deptName ?></h3>
  \langle ul \rangle
    \langle li \rangle
      <a href="projectView.php?id=<?= $dep ?>">Projects&nbsp;<span>(<?= $projects
?>)</span></a>
    <
      <a href="empView.php?id=<?= $dep ?>">Employees&nbsp;<span>(<?= $employees
?>)</span></a>
    </body>
</html>
```

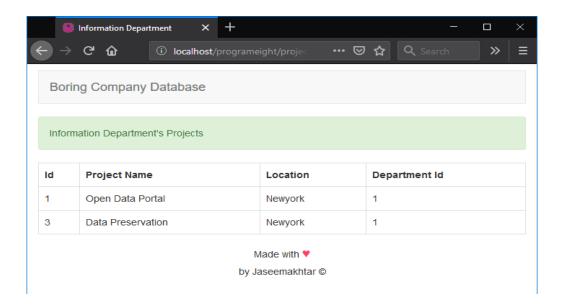
projectView.php

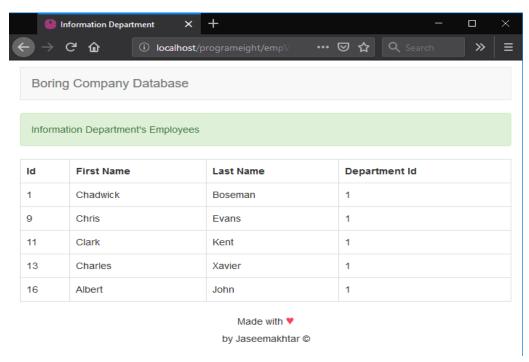
```
<?php
  dep = GET['id'];
  if(\text{sdep} == 1)
    $deptName = "Information Department";
  else if($dep == 2)
    $deptName = "Sales Department";
  else if($dep == 3)
    $deptName = "Operations Department";
  else
    $deptName = "Research & Development Department";
  $projects = array();
  include('connection.php');
  $sql = "SELECT id, name, location, dep FROM programeight.project WHERE dep = $dep";
  $result = mysqli_query($conn, $sql);
  if(mysqli_num_rows(sresult) > 0)
    while($row = mysqli_fetch_assoc($result)){
       $projects[] = $row;
  }
  mysqli_close($conn);
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <title><?= $deptName ?></title>
  <style>
    table, td, th{
       border: 1px solid #ddd;
  </style>
</head>
<body>
  <h1>Boring Company Database</h1>
  <h3><?= $deptName . "'s Projects" ?></h3>
```

```
<th>Id</th>
     Project Name
     Location
     Department Id
   <?php
     for(\$i = 0; \$i < count(\$projects); \$i++){
       echo '';
       echo "" . $projects[$i]['id'] . " ";
       echo "" . $projects[$i]['name'] . " ";
       echo "" . $projects[$i]['location'] . " ";
       echo "" . $projects[$i]['dep'] . " ";
       echo '';
   ?>
 </body>
</html>
```









9. Implement the problem of finding employee names given their social security number as a Web application. Design two Web pages: 1. The first Web page would contain a HTML form that contains a select list of social security numbers of employees and a submit button. 2. Upon choosing a social security number and submitting the form in the first Web page produces the second Web page that lists the name of the employee.

connection.php

```
<?php
    $server = "localhost";
    $username = "root";
    $password = "root";
    $conn = mysqli_connect($server, $username, $password);
    if (!$conn) {
        die("Connection failed: " . $conn->connect_error);
    }
?>
```

index.php

```
<?php
include('connection.php');
$sql = "SELECT ssn FROM programnine.employee";
$result = mysqli_query($conn, $sql);
$ssns = array();

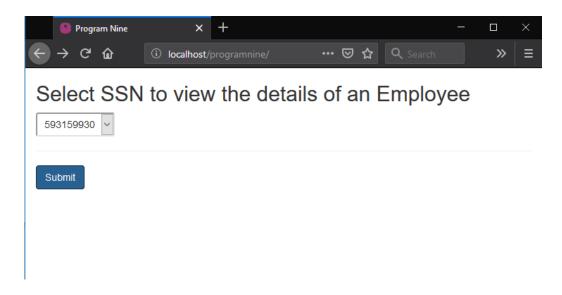
if(mysqli_num_rows($result) > 0){
    while($row = mysqli_fetch_assoc($result)){
        $ssns[] = $row;
    }
}

mysqli_close($conn);
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Program Nine</title>
    <style>
        *{
```

```
font-family: Arial;
  </style>
</head>
<body>
<div class="container">
  <h2>Select SSN to view the details of an Employee </h2>
  <form method="get" action="details.php">
     <select name="ssn">
       <?php
          for(\$i = 0; \$i < count(\$ssns); \$i++){
            echo '<option value="'. $ssns[$i]['ssn'] . "'>' . $ssns[$i]['ssn'] . '</option>';
       ?>
     </select>
     <hr>
     <input type="submit" value="Submit">
  </form>
</div>
</body>
</html>
details.php
<?php
  ssn = GET[ssn'];
  include('connection.php');
  $sql = "SELECT ssn, fname, lname, email, phone, address FROM programnine.employee
WHERE ssn = '\$ssn' ";
  $result = mysqli_query($conn, $sql);
  p = array();
  if(mysqli_num_rows(\$result) > 0){
     while($row = mysqli_fetch_assoc($result)){
       semp[] = srow;
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Program Nine</title>
  <style>
     *{
       font-family: Arial;
```

td, tr, th{

```
border: 1px solid #ddd;
     padding: .4em;
   table{
     border-collapse: collapse;
 </style>
</head>
<body>
 <div>
   <h2> Employee details of SSN = <?= $emp[0]['ssn'] ?> </h2>
   SSN
      First Name
      Last Name
      Email
      Phone
      Address
     <?= $emp[0]['ssn'] ?>
      <?= $emp[0]['fname'] ?>
      <!= $emp[0]['lname'] ?>
      <?= $emp[0]['email'] ?>
      <!= $emp[0]['phone'] ?>
      <!= $emp[0]['address'] ?>
     </div>
</body>
</html>
```





Employee details of SSN = 593159930

SSN	First Name	Last Name	Email	Phone	Address
593159930	Steve	Rogers	srogers@gmail.com	9922114472	Gokak, India

10. Mini Project: Illustrate online address/contact book application using PHP and MySQL. The application should perform the following functions: (1) ADD a new contact. (2) DELETE one or more contacts. (3) SEARCH contacts by substring match on name. (4) LIST all contacts.

connection.php

```
<?php
$server = "localhost";
$username = "root";
$password = "jaseem";
$conn = mysqli_connect($server, $username, $password);
if (!$conn) {
    die("Connection failed: " . mysqli_error($conn));
}
</pre>
```

index.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Address Book</title>
  <style>
    body{
      font-family: Arial;
  </style>
</head>
<body>
<center>
  <h1>Online Address/ Contact Book</h1>
  \langle ul \rangle
    <a href="add.php">Add Contact</a>
    <a href="delete.php">Delete Contact</a>
    <a href="search.php">Search Contact</a>
    <a href="list.php">List Contact</a>
  </center>
</body>
</html>
```

add.php

```
<?php
  include('connection.php');
  smsg = ";
  if(isset($_POST['add'])){
    ne = POST['name'];
    $phone = $_POST['phone'];
    $address = $_POST['address'];
    $sql = "INSERT INTO programten.contacts (id, name, phone, address) VALUES (NULL,
'$name', $phone, '$address')";
    if(mysqli_query($conn, $sql)){
      $msg = "Inserted Successsfully.";
    }else{
      $msg = "Failed to insert [ " . mysqli_error($conn) . " ]";
  mysqli_close($conn);
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Address Book</title>
  <style>
    body{
      font-family: Arial;
  </style>
</head>
<body>
<center>
  <h1>Add Contact</h1>
  <form method="POST" action="<?= $_SERVER['PHP_SELF'] ?>">
    Name:
        <input type="text" name="name">
      Phone:
        <input type="number" name="phone">
```

```
Address:
        <input type="text" name="address">
      <input type="submit" name="add" value="Submit">
      </form>
  <?= $msg ?>
</center>
</body>
</html>
search.php
<?php
  include('connection.php');
  $msg = ";
  $contacts = array();
  if(isset($_POST['search'])){
    ne = POST['name'];
    $sql = "SELECT * FROM programten.contacts WHERE name LIKE '%$name%'";
    $result = mysqli_query($conn, $sql);
    if (mysqli\_num\_rows(\$result) > 0) {
      while($row = mysqli_fetch_assoc($result)) {
        $contacts[] = $row;
    }else{
      $msg = "No records found.";
  mysqli_close($conn);
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Address Book</title>
  <style>
    body{
      font-family: Arial;
  </style>
```

```
</head>
<body>
<center>
 <h1>Search Contacts</h1>
 <form method="POST" action="<?= $_SERVER['PHP_SELF'] ?>">
   <input type="text" name="name" placeholder="Type Name to search" >
   <input type="submit" value="Search" name="search">
 </form>
 <br>
 <th>> ID</th>
     Name
      Phone
      Address
   <?php
     for(\$i = 0; \$i < count(\$contacts); \$i++)
       echo '';
       echo "" . $contacts[$i]['id'] . " ";
       echo "" . $contacts[$i]['name'] . " ";
       echo "" . $contacts[$i]['phone'] . " ";
       echo "" . $contacts[$i]['address'] . " ";
       echo '';
   ?>
 <?= $msg ?>
</center>
</body>
</html>
```

delete.php

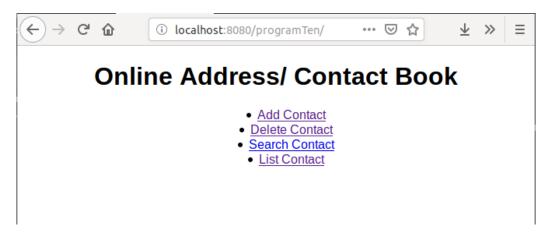
```
<?php
include('connection.php');
$msg = ";
$dmsg = ";
if(isset($_POST['delete'])){
    $ids = $_POST['ids'];

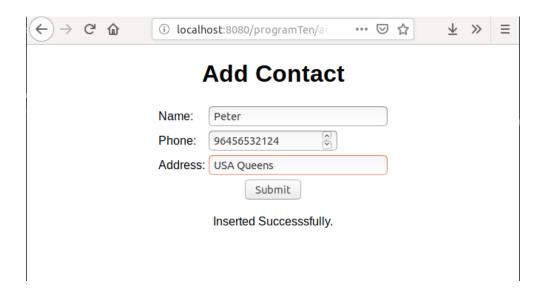
foreach ($ids as $id){
    $sql = "DELETE FROM programten.contacts WHERE id = $id";</pre>
```

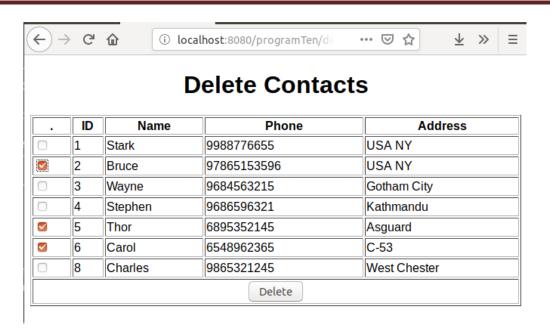
```
if (mysqli_query($conn, $sql)) {
        $dmsg = "Record deleted successfully";
      } else {
        $dmsg = "Error deleting record: " . mysqli_error($conn);
    }
  }
  $sql = "SELECT * FROM programten.contacts";
  $result = mysqli_query($conn, $sql);
  $contacts = array();
  if (mysqli\_num\_rows(\$result) > 0) {
    while($row = mysqli_fetch_assoc($result)) {
      $contacts[] = $row;
  }else{
    $msg = "No records found.";
  mysqli_close($conn);
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Address Book</title>
  <style>
    body{
      font-family: Arial;
  </style>
</head>
<body>
<center>
  <h1>Delete Contacts</h1>
  <form method="POST" action="<?= $_SERVER['PHP_SELF'] ?>">
    <th></th>
        <th>> ID</th>
        Name
         Phone
         Address
      <?php
        for(\$i = 0; \$i < count(\$contacts); \$i++)
          echo '';
```

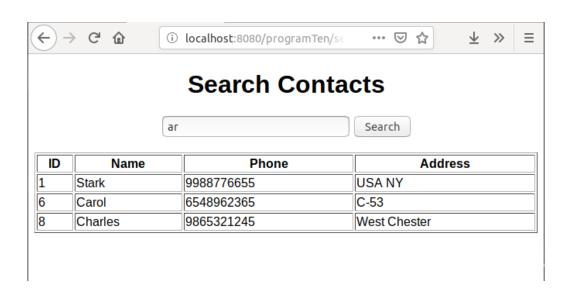
```
echo ' <input type="checkbox" name="ids[]" value="' . $contacts[$i]['id'] . "'>
';
          echo "" . $contacts[$i]['id'] . " ";
          echo "" . $contacts[$i]['name'] . " ";
          echo "" . $contacts[$i]['phone'] . " " ;
          echo "" . $contacts[$i]['address'] . " ";
          echo '';
        }
      ?>
       <input type="submit" value="Delete" name="delete"> 
      </form>
  <?= $msg ?>
  <?= $dmsg ?>
</center>
</body>
</html>
list.php
<?php
  include('connection.php');
  $msg = ";
  $sql = "SELECT * FROM programten.contacts";
  $result = mysqli_query($conn, $sql);
  $contacts = array();
  if (mysqli\_num\_rows(\$result) > 0) {
    while($row = mysqli_fetch_assoc($result)) {
      $contacts[] = $row;
  }else{
    $msg = "No records found.";
  mysqli_close($conn);
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Address Book</title>
```

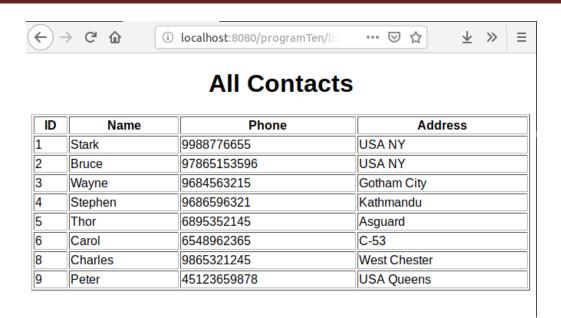
```
<style>
   body{
     font-family: Arial;
 </style>
</head>
<body>
<center>
 <h1>All Contacts</h1>
 <th>> ID</th>
     Name
      Phone
      Address
   <?php
   for(\$i = 0; \$i < count(\$contacts); \$i++){
     echo '';
     echo "" . $contacts[$i]['id'] . " " ;
     echo "" . $contacts[$i]['name'] . " " ;
     echo "" . $contacts[$i]['phone'] . " ";
     echo "" . $contacts[$i]['address'] . " ";
     echo '';
 ?>
 <?= $msg ?>
</center>
</body>
</html>
```





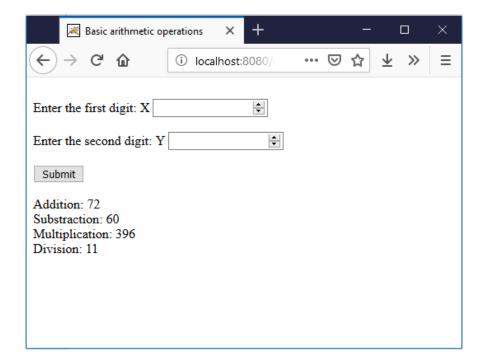






11. JSP program for basic arithmetic operations.

```
<html>
       <head>
               <title>
                      Basic arithmetic operations
               </title>
       </head>
       <body>
                      <form action="#">
                              <br/>br>Enter the first digit: X
                              <input type="number" name="firstDigit" >
                              <br/>br>Enter the second digit: Y
                              <input type="number" name="secondDigit" >
                              <br/>br><BR>
                              <input type="submit" value="Submit" name="submit">
                      </form>
                      <%
                             if (request.getParameter("submit") != null) {
                             String s = (String) request.getParameter("firstDigit");
                             int x = Integer.parseInt(s);
                              String s1 = (String) request.getParameter("secondDigit");
                             int y = Integer.parseInt(s1);
                             //Arithmetic operation
                             int sum = x + y;
                             int sub = x - y;
                             int mul = x * y;
                             int div = x / y;
                              out.println("Addition: " + sum + "<br>");
                             out.println("Substraction: " +sub + "<br>");
                              out.println("Multiplication: " +mul + "<br>");
                              out.println("Division: " +div + "<br>");
                              }
                      %>
       </body>
</html>
```

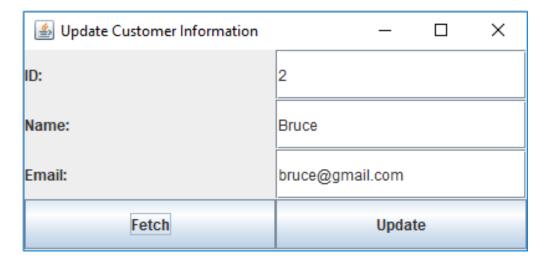


12. Illustrate JDBC connectivity to update customer information.

Application.java

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class Application extends JFrame implements ActionListener{
  JButton btnUpdate, btnFetch;
  JTextField txtId, txtName, txtEmail;
  JLabel lblId, lblName, lblEmail;
  Connection connection;
  Statement statement:
  public Application(Connection connection){
     this.connection = connection;
    txtId = new JTextField(20);
     txtName = new JTextField(20);
     txtEmail = new JTextField(20);
     lblId = new JLabel("ID: ");
     lblName = new JLabel("Name: ");
     lblEmail = new JLabel("Email: ");
     btnUpdate = new JButton("Update");
     btnFetch = new JButton("Fetch");
     setLayout(new GridLayout(0, 2));
     add(lblId);
     add(txtId);
     add(lblName);
     add(txtName);
     add(lblEmail);
     add(txtEmail);
     add(btnFetch);
     add(btnUpdate);
     btnFetch.addActionListener(this);
     btnUpdate.addActionListener(this);
     setTitle("Update Customer Information");
     setDefaultCloseOperation(EXIT ON CLOSE);
     setSize(420, 200);
     setVisible(true);
  @Override
  public void actionPerformed(ActionEvent e) {
     if(e.getSource() == btnFetch){
       try{
```

```
String id = txtId.getText().trim();
         if("".equals(id)){
            System.out.println("You should enter id first");
            return:
          }else{
            statement = connection.createStatement();
            String sql = "SELECT * FROM programeleven WHERE id = " + id;
            ResultSet resultSet = statement.executeQuery(sql);
            if(resultSet.next()){
               txtId.setText(resultSet.getInt(1) + "");
               txtName.setText(resultSet.getString(2));
               txtEmail.setText(resultSet.getString(3));
            }else{
               System.out.println("ID not found");
              txtEmail.setText("");
              txtName.setText("");
              txtId.setText("");
            }
       }catch(Exception ex){
          System.out.println(ex);
     }else{
       try{
          String id = txtId.getText().trim();
          String name = txtName.getText().trim();
          String email = txtEmail.getText().trim();
          if(id.equals("") && name.equals("") && email.equals("")){
            System.out.println("Do not leave any field blank");
            return;
          }else {
            String sql = "UPDATE programeleven SET id = " + id + ", name = "' + name + "',
email = "" + email + "" WHERE id = " + id;
            if(statement.executeUpdate(sql) > 0){
               System.out.println("Update successfully.");
               System.out.println("Failed to update.");
       }catch (Exception ex){
          System.out.println(ex);
```



13. Write a Ruby program to create a user defined function and illustrate to call the function.

```
# user defined function myfunc with two parameters
def myfunc x, y
   puts "#{x * y}"
end
myfunc "Hello world!\n", 10
```

```
jaseem@h4ck3r4kht4r: ~/Code/WEB/Ruby/programSeventeen

File Edit View Search Terminal Help

jaseem@h4ck3r4kht4r:~/Code/WEB/Ruby/programSeventeen$ ruby UserDefinedFunc.rb

Hello world!

Hello world!
```

14. Write a ruby program to find maximum element in an array.

```
puts "\n\n\s\sMaximum Number in an Array"
       puts "\s\s----"
       puts "Enter the size of the array"
       n=gets.to i
       a=Array.new(n)
       puts "Enter the elements of array"
       for i in 1..n
       a[i]=gets.to_i
       end
       j=1
       for i in (j+1)..n
         if a[j]<a[i]
          a[j]=a[i]
         end
       end
       puts "Maximum Number is: #{a[1]}"
puts "----end-----"
```

15. Write a ruby program to swap two numbers using function.

```
#=begin
class Swapfun
=begin
 def read
   puts "Enter two numbers:"
   @a=gets.to_i
   @b=gets.to i
   puts "Before swaping the values are:#{@a},#{@b}"
 end
=end
 def swap(a,b)
   @a=a;@b=b
  t=@a
  @a=@b
   @b=t
  #puts "#{@a},#{@b}"
 end
 def show()
   puts "After swaping the values are:#{@a},#{@b}"
 end
end
obj1=Swapfun.new
puts "Enter the two numbers:"
a=gets.to_i
b=gets.to_i
puts "Before swaping the values are:#{a},#{b}"
obj1.swap(a,b)
obj1.show()
```

```
C:\Windows\system32\cmd.exe

C:\Users\user\Jaseem\ruby>ruby ProgramEleven.rb

Swap two numbers using functions

Enter the two numbers:

10

15

Before swaping the values are:10,15

After swaping the values are:15,10

C:\Users\user\Jaseem\ruby>__
```

16. Write a ruby program to reverse an given integer.

```
puts "\n\n\s\sReverse a given number"
puts "\s\s-----"
puts "Enter the number:"
n=gets.to_i
a=Array.new
i=0
rev=0
puts "Reversed Number:"
begin
mod=n%10
a[i]=mod
rev=rev*10+mod
n=n/10
end while (n > 0)
puts "#{rev}"
puts "----end-----"
```

17. Write a ruby program to sort n elements using bubble sort.

```
puts "\n\n\s\sBubble Sort"
puts "\s\s----"
puts "Enter the size of the array"
n=gets.to_i
a=Array.new(n)
puts "Enter the elements:"
for i in 0...n
 a[i]=gets.to_i
end
t=0
for i in 0...n
for j in 0...(n-(i+1))
   if (a[j] > a[j+1])
     t=a[j]
     a[j]=a[j+1]
     a[j+1]=t
    end
 end
end
puts "After Sorting:"
for i in 0..n
 puts "#{a[i]}"
end
```

```
C:\Windows\system32\cmd.exe — X

C:\Users\user\Jaseem\ruby>ruby ProgramFourteen.rb

Bubble Sort
______
Enter the size of the array
5
Enter the elements :
2
1
9
8
5
After Sorting :
1
2
5
8
9
```

18. Implement the concept of method overriding in Ruby.

```
# define a class
class Box
 # constructor method
 def initialize(w,h)
   @width, @height = w, h
 end
 # instance method
 def getArea
  puts "Box area is: #{ @width * @height} "
 end
end
# define a subclass
class BigBox < Box
 # change existing getArea method as follows
 def getArea
   super
   @area = @width * @height
   puts "Big box area is: #@area"
 end
end
# create an object
box = BigBox.new(10, 20)
box1 = Box.new(20,12)
box1.getArea()
# print the area using overriden method.
box.getArea()
```

```
C:\Windows\system32\cmd.exe — X

C:\Users\user\Jaseem\ruby>notepad ProgramFifteen.rb

C:\Users\user\Jaseem\ruby>ruby ProgramFifteen.rb

Box area is : 240

Box area is : 200

Big box area is : 200

C:\Users\user\Jaseem\ruby>__
```