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COURSE : OPEN SOURCE PROGRAMMING
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LAB DIGITAL ASSIGNMENT – 2

1. Develop a PHP code for an online book store. When the user submits the details, it should list the book details such as author name, year of publication, title, book name in a table format along with its description.

Note: Input to be retrieved from HTML form.

Source code:

PHP

```
<!DOCTYPE HTML>

<html>
<head>
    <title>1Q online store</title>
    <link rel="stylesheet" href="1Q.css" type="text/css">
</head>

<body>
<div class="book_con">

    <div class="get_book"><!-- get_book -->

        <fieldset>
        <legend>Provide Book Details</legend>
        <form action="1Q_online_book_store.php" method="post">

            <center>
            <br>
            Search By :
            <select name="scrh_by">

                <option value="an">Author Name</option>
                <option value="bn">Book Name</option>

            </select>

            <br><br>
            <input type="text" name="input" placeholder="Author or Book Name" />

            <br><br>
            <input type="submit" name="submit" value="Submit" /><br><br>

        </center>
        </form>
        </fieldset>

    </div>

    <div class="display_book">

        <?php
        if(isset($_POST['submit']))
        {
            $book = array(
array("Amit Garg", "2011", "Junior Level Books Introduction to Computer", "Reader's Zone"),
array('Lalit Kumar', '2012', 'Client Server Computing', 'Sun India Publications, New Delhi'),
array('Vinay Kumar Singhal', '2011', 'Mobile Computing', ' K Nath & Sons, Meerut'),
array('Sharad Kumar Verma', '2015', 'Data Structure Using C', 'Thakur Publications Lucknow')
);

            $found = 0;

            if($_POST['scrh_by']=='an')
            {

                for($i=0; $i<sizeof($book); $i++)
                {
                    if($book[$i][0] == $_POST['input'])
                    {

                        echo "
<fieldset> <legend>Found Results</legend>
<table border='1' cellspacing='7'>
<tr>
    <td>Author Name</td>
    <td>" . $book[$i][0] . "</td>
</tr>
<tr>
    <td>Year of Publication</td>
    <td> ". $book[$i][1] . "</td>
</tr>
<tr>
    <td>Book Name</td>
    <td>".$book[$i][2]."</td>
</tr>

```

```

<tr>
    <td>Publisher</td>
    <td>".$book[$i][3]."</td>
</tr>
</tr>

</table>  </feildset>
        ";
$found = 1;

    }
}
if($found == 0)
{
echo "<img src='no_rslt.png' width='300' height='300'>";
}
}

else if($_POST['scrh_by']=='bn')
{

for($i=0; $i<sizeof($book); $i++)
{
    if($book[$i][2] == $_POST['input'])
    {

        echo "
<fieldset> <legend>Found Results</legend>
<table border='1' cellspacing='7'>
<tr>
    <td>Author Name</td>
    <td> ". $book[$i][0] ."</td>
</tr>
<tr>
    <td>Year of Publication</td>
    <td> ". $book[$i][1] ."</td>
</tr>
<tr>
    <td>Book Name</td>
    <td>".$book[$i][2]."</td>
</tr>
<tr>
    <td>Publisher</td>
    <td>".$book[$i][3]."</td>
</tr>
</tr>
        ";
$found = 1;
    }
}

if($found == 0)
{
echo "<img src='no_rslt.png' width='420' height='300'>";
}
}

}

?>

</div>
</div>
</body>
</html>

```

CSS

```

*{
    padding: 0;
    margin: 0;
    font-family: "Trebuchet MS", Helvetica, sans-serif;
}

body{
    background-image: -webkit-linear-gradient(top left, #FA65FF, #57ABFF);
    background-image: linear-gradient(to bottom right, #FA65FF, #57ABFF);
    min-height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
}

.book_con{
    min-height: 200px;
    min-width: 950px;
    display: flex;
    justify-content: space-around;
    align-items: center;
    padding: 5px;
}

.get_book , .display_book{

```

```

border: none;
min-height: 200px;
min-width: 200px;
font-size: 20px;

}

legend{
  padding: 5px;
  font-size: 20px;
}

form, legend {
  color: white;
}

input{
  padding: 8px;
  letter-spacing: 1.3px;
  outline: none;
  border: none;
}

fieldset{
  padding: 10px;
  border: 3px solid white;
}

table {
  color: white;
  border: none;
  padding: 10px;
}

td{
  padding : 5px;
  border-left: 5px solid #3B4FEB;
  background : white;
  color: black;
}

select{
  border : none;
  padding: 3px;
  letter-spacing: 1.4px;
  border-radius: 5px;
}

input[type='submit']{
  border-radius : 50px;
  background: #20CC25;
  color: white;
  font-weight: bold;
  border : 2px ridge white;
}

input[type='text']
{
  border-radius: 20px;
  text-align: center;
}

```

Output

The screenshot shows a web browser window with a search interface. The title bar indicates the page is 'localhost/19BCS0012_DA2-LAB/1Q_online_book_store.php'. The main content area has a light blue gradient background. A white rectangular form is centered, titled 'Provide Book Details'. Inside the form, there is a dropdown menu labeled 'Search By : Author Name' and a text input field below it with the placeholder 'Author or Book Name'. A green rounded rectangular button labeled 'Submit' is at the bottom of the form.

Provide Book Details

Search By : Author Name

[Amit Garg](#)

Submit

Found Results

Author Name	Amit Garg
Year of Publication	2011
Book Name	Junior Level Books Introduction to Computer
Publisher	Reader's Zone

Provide Book Details

Search By : Book Name

[Mobile Computing](#)

Submit

Found Results

Author Name	Vinay Kumar Singhal
Year of Publication	2011
Book Name	Mobile Computing
Publisher	K Nath & Sons, Meerut

2. Write a PHP code to design a webpage for a university to display the courses offered along with the prerequisite using frames. Note: Input to be retrieved from HTML form

Source code

PHP

```
<!DOCTYPE HTML>
<html>
<head>
  <title>2Q_University_courses</title>
</head>

<frameset style="border:1px solid" rows="10.6%,*" border='1'>
<frame src="2Q_nav.html" name ="navbar">

<frameset cols="24.2%,*"
  <frame src="2Q_course_ctg.php" name="course_ctg">
  <frame src="2Q_course_list.php" name="course_list">
</frameset>

</frameset>
</html>
```

NAV BAR

```
<!DOCTYPE HTML>

<html>
  <head>
    <title>2Q Navbar</title>
    <style type="text/css">

      *{ padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif; }

      nav{
        display: flex;
        align-items: center;
        justify-content: space-between;
        padding : 8px 25px;
      }

      nav a{
        display: inline-block;
        width: 120px;
        padding: 10px;
        border: 1px solid ;
        text-align : center;
        margin: 5px;
        letter-spacing: 1.3px;
        border-top-left-radius: 9px;
        border-top-right-radius: 9px;
        border: 1px solid #BABABA;
        text-decoration: none;
        font-size: 18px;
      }

      .act_pg{
        background: #2139E8;
        color: white;
        font-weight: bold;
      }

    </style>
  </head>

  <body>
    <nav>

      <div style="display: flex; justify-content: center; align-items: center;">
        <H1>NIT UNIVERSITY</H1>&nbsp;&nbsp;
        
      </div>

      <div>
        <a href="">Home</a>
        <a href="" class="act_pg">Courses</a>
        <a href="">Sign Up</a>
        <a href="">Login</a>
      </div>

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

COURSE CATEGORY.PHP

```
<!DOCTYPE HTML>

<html>
  <head>
    <title>Course category</title>
    <style type="text/css">

      *{
        padding: 0;
        margin: 0;
      }

      .course_list_cont{
        min-height: 100px;
        min-width: 100px;
        background: #8B6EFF;
        display: inline-block;
        padding: 10px 0px;
        margin: 4px;
      }

      label{
        padding: 25px 10px;
        width: 280px;
        word-break: break-all;
        display: inline-block;
        margin: 10px;
        background: white;
        outline: none;
        font-size: 20px;
        word-wrap: break-word;
        border: 0px ;
        font-family: "Trebuchet MS", Helvetica, sans-serif;
        text-align: center;
        transition: 0.3s;
      }

      label:hover{
        background: #00E078;
        color: white;
        font-weight: bold;
        cursor: pointer;
        box-shadow: 6px 6px #FFFFFF;
      }

      input[type='submit']{
        display: none;
      }

    </style>
  </head>
```

```

</style>
</head>

<body>

<div class="course_list_cont">

    <form action="2Q_course_list.php" target="course_list" method="post">

        <label for="c1">Single Degree Course</label>
        <label for="c2">Cross-Disciplinary Programme</label>
        <label for="c3">Double Degree Programmes</label>
        <label for="c4">Specialisation Programmes</label>
        <label for="c5">Double Major Programmes</label>
        <label for="c6">Minor Programmes</label>

        <input id="c1" type="submit" name="snl_deg" value="Single Degree Course" />
        <input id="c2" type="submit" name="crs_deg" value="Cross-Disciplinary Programme" />
        <input id="c3" type="submit" name="dbl_deg" value="Double/Concurrent Degree Programmes" />
        <input id="c4" type="submit" name="spl_prg" value="Specialisation Programmes" />
    </form>

</div>

</body>
</html>

```

COURSE LIST.PHP

```

<!DOCTYPE HTML>

<html>

<head>
    <title>2Q_course_list</title>

    <style type="text/css">

        *{ padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif; }
        body{
            padding: 10px;
        }
        table{
            border-collapse: collapse;
        }

        th{
            min-width : 150px;
            background: #FF8A29;
            color: white;
            padding : 20px;
            letter-spacing: 1.3px;
        }
        td{
            text-align: left;
            padding: 10px 15px;
            border: 1px solid #C4C4C4;
        }
    </style>
</head>

<body>

<?php
if(isset($_POST['snl_deg']))
{
    $snl_deg = array(
        array('Architecture','Year 12 or higher level pass in Chemistry or Mathematics or Physics or Physical Science','Yes'),
        array('Business Administration','Year 12 or higher level pass in Mathematics','No'),
        array('Business Administration (Accountancy)','Year 12 or higher level pass in Mathematics.','No'),
        array('Business Analytics (Offered by School of Computing)','Year 12 or higher level pass in Mathematics.','No'),
        array('Computer Science courses','Year 12 or higher level pass in Mathematics.','No'),
        array('Dentistry','Year 12 or higher level pass in Chemistry and either Biology or Physics.','Yes'),
        array('Food Science and Technology','Year 12 or higher level pass in any two of the following: Biology or Chemistry or Computing or Physics or Physical Science or Mathematics/Further Mathematics.','No'),
        array('Humanities and Sciences','Please refer to https://chs.nus.edu.sg/programmes/#prog-majors for details.','No'),
        array('Landscape Architecture','Year 12 or higher level pass in Chemistry or Mathematics or Physics or Physical Science. ','Yes')
    );

    echo "<table border ='1'>
        <tr>
            <th>Course</th>
            <th>Course Prerequisites</th>
            <th>Selection test/Interview</th>
        </tr>";
    for($i=0;$i<sizeof($snl_deg); $i++)
    {
        echo "<tr>";
        for($j=0; $j<3; $j++)
        {
            echo "<td>".$snl_deg[$i][$j]."</td>";
        }
        echo "</tr>";
    }
    echo "</table>";
}

if(isset($_POST['crs_deg']))
{

```

```

$crs_deg = array(
array('Data Science and Economics','Strong Year 12 pass or strong higher-level pass in Mathematics','No'),
array('Environmental Studies','Strong Year 12 pass or strong higher-level pass in Biology','No'),
array('Philosophy, Politics, and Economics','Please refer to https://chs.nus.edu.sg/programmes/ppe/ for details.','Yes')
);

echo "<table border ='1'>
<tr>
<th>Cross-Disciplinary Programme</th>
<th>Subject Prerequisites</th>
<th>Selection test/Interview</th>
</tr>";

for($i=0;$i<sizeof($crs_deg); $i++)
{
echo "<tr>";
for($j=0; $j<3; $j++)
{
echo "<td>".$crs_deg[$i][$j]."</td>";
}
echo "</tr>";
}
echo "</table>";

}

if(isset($_POST['dbl_deg']))
{
$dbl_deg= array(
array('Business Administration & Business Analytics','Year 12 or higher level pass in Mathematics.','No'),
array('Business Administration & Communications and New Media','Minimum prevailing admission criteria of both courses. 1','No'),
array('Business Administration & Computer Science Courses','Year 12 or higher level pass in Mathematics. 2','No'),
array('Business Administration & Information Systems','Year 12 or higher level pass in Mathematics. 2','No'),
array('Business Administration & Law','Year 12 or higher level pass in Mathematics AND a high proficiency in the English Language (e.g. General Paper B, IELTS 7 or TOEFL iBT 100 or SAT Critical Reading/Evidence-Based Reading and Writing score of 700 or AP English Language Grade 4).','Yes'),
array('Business Analytics & Economics','Year 12 or higher level pass in Mathematics.','No')
);

echo "<table border ='1'>
<tr>
<th>Double / Concurrent Programmes</th>
<th>Subject Prerequisites</th>
<th>Selection test/Interview</th>
</tr>";

for($i=0;$i<sizeof($dbl_deg); $i++)
{
echo "<tr>";
for($j=0; $j<3; $j++)
{
echo "<td>".$dbl_deg[$i][$j]."</td>";
}
echo "</tr>";
}
echo "</table>";

}
}

?>

</body>
</html>

```

OUTPUT

Course	Course Prerequisites	Selection test/interview
Architecture	Year 12 or higher level pass in Chemistry or Mathematics or Physics or Physical Science	Yes
Business Administration	Year 12 or higher level pass in Mathematics	No
Business Administration (Accountancy)	Year 12 or higher level pass in Mathematics.	No
Business Analytics (Offered by School of Computing)	Year 12 or higher level pass in Mathematics.	No
Computer Science courses	Year 12 or higher level pass in Mathematics.	No
Dentistry	Year 12 or higher level pass in Chemistry and either Biology or Physics.	Yes
Food Science and Technology	Year 12 or higher level pass in any two of the following: Biology or Chemistry or Computing or Physics or Physical Science or Mathematics/Further Mathematics.	No
Humanities and Sciences	Please refer to https://chs.nus.edu.sg/programmes/#prog-majors for details.	No
Landscape Architecture	Year 12 or higher level pass in Chemistry or Mathematics or Physics or Physical Science.	Yes

Screenshot of a web browser showing a university course page. The page has a header with tabs for 'Index of /19BCS0012_DA2-LAB', '2Q_University_courses', and 'array_lab.pdf'. The main navigation bar includes 'Home', 'Courses' (highlighted in blue), 'Sign Up', and 'Login'. On the left, there's a sidebar with categories: 'Single Degree Course', 'Cross-Disciplinary Programme', 'Double Degree Programmes' (highlighted in green), 'Specialisation Programmes', 'Double Major Programmes', and 'Minor Programmes'. The main content area displays a table with columns: 'Double / Concurrent Programmes', 'Subject Prerequisites', and 'Selection test/interview'. The table rows list various programs with their prerequisites and whether they require a selection test or interview.

Double / Concurrent Programmes	Subject Prerequisites	Selection test/interview
Business Administration & Business Analytics	Year 12 or higher level pass in Mathematics.	No
Business Administration & Communications and New Media	Minimum prevailing admission criteria of both courses. 1	No
Business Administration & Computer Science Courses	Year 12 or higher level pass in Mathematics. 2	No
Business Administration & Information Systems	Year 12 or higher level pass in Mathematics. 2	No
Business Administration & Law	Year 12 or higher level pass in Mathematics AND a high proficiency in the English Language (e.g. General Paper B, IELTS 7 or TOEFL iBT 100 or SAT Critical Reading/Evidence-Based Reading and Writing score of 700 or AP English Language Grade 4).	Yes
Business Analytics & Economics	Year 12 or higher level pass in Mathematics.	No

3. Write a PHP code to design a webpage for a hospital to display the different departments along with the facilities available and print it in a table.

Note: Input to be retrieved from HTML form

SOURCE CODE

PHP

```
<!DOCTYPE HTML>
<html>
<head>
    <title>3Q_Hosiptal</title>
</head>

<frameset style="border:1px solid" rows="10.6%,*" border='1'>
<frame src="3Q_nav.html" name ="navbar">
<frameset cols="24.2%,*"
    <frame src="3Q_get_dep.php" name="get_dep">
    <frame src="3Q_display_dep.php" name="display_dep">
</frameset>
</frameset>
</html>
```

Navbar

```
<!DOCTYPE HTML>
<html>
<head>
    <title>2Q Navbar</title>
    <style type="text/css">
        *{ padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif; }
        nav{
            display: flex;
            align-items: center;
            justify-content: space-between;
            padding : 8px 25px;
        }
        nav a{
            display: inline-block;
            width: 120px;
            padding: 10px;
            text-align : center;
            margin: 5px;
            letter-spacing: 1.3px;
            border-top-left-radius: 9px;
            border-top-right-radius: 9px;
            border: 1px solid #BABABA;
            text-decoration: none;
            font-size: 18px;
        }
        .act_pg{
            background: #30E86A;
            color: white;
            font-weight: bold;
        }
    </style>
</head>
<body>
```

```

<nav>


<H1>NIT HOSPITAL</H1>&nbsp;&nbsp;



</div>

<div>
<a href="">Home</a>
<a href="" class="act_pg">Department</a>
<a href="">Sign Up</a>
<a href="">Login</a>
</div>

</nav>
</body>
</html>

```

GET_DEPARTMENT

```

<!DOCTYPE HTML>
<html>
<head>
<title>3Q_get_dep</title>
<style type="text/css">
*{
    padding: 0;
    margin: 0;
    font-family: "Trebuchet MS", Helvetica, sans-serif;
}
body{
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
}

fieldset{
    margin: 10px;
    padding: 35px 15px;
    border: 2px solid #D6D6D6;
}
legend{
    padding: 5px;
    letter-spacing: 1.4px;
    font-size: 20px;
}
input[type='text']
{
    font-size: 19px;
    padding: 5px;
    border: 2px solid #DBDBDB;
    border-radius: 5px;
    box-shadow: 0 10px 5px -8px #C4C4C4;
    text-align: center;
}
input[type='submit']
{
    padding : 5px 10px;
    font-size: 18px;
    background: white;
    outline: none;
    border: 1px solid #9dff2b;
    background: #9dff2b;
    border-radius: 50px;
    color: black;
    letter-spacing: 1.5px;
}
input[type='text']:hover,input[type='submit']:hover
{
    box-shadow : 6px 6px 4px #4f4f4f;
}

</style>
</head>

<body>
<fieldset>
<legend>Search Department</legend>
<form action="3Q_display_dep.php" target="display_dep" method="post">
<center><br>
<h2>Enter Department Name</h2>

<br><br>
<input type="text" name="input" />
<br><br> <br>
<input type="submit" name="search" value="Search" /><br><br>

<br><br>
<input type="submit" name="all" value="Display ALL Department" style=" background: #385ee5; color:white; padding: 10px; border-radius : 0;" />
<br><br><br>
<br><br>

</center>

</form>

```

```

</fieldset>
</body>
</html>

Display_department.php

<!DOCTYPE HTML>

<html>
<head>
<title>3Q_display_dep</title>
<style type="text/css">
*{ font-family: "Trebuchet MS", Helvetica, sans-serif; }

body{
    padding: 10px;
}
table{
    border-collapse: collapse;
}

th{
    min-width : 150px;
    background: #BF5DFF;
    color: white;
    padding : 20px;
    letter-spacing: 1.3px;
}
td{
    text-align: left;
    padding: 10px 15px;
    border: 1px solid #C4C4C4;
}
</style>
</head>

<body>

<?php
$dept = array(
array('OPD (Allopathy & Homeopathy)', 'Patients are registered at the reception and are seen on first come, first serve basis, however out of turn consultation may be provided in case of emergency and senior citizen. Patients have the right to consult any doctor. In OPD, clinical consultation is provided to patients which includes history taking, clinical examination, diagnosis and providing prescription to patients besides advising laboratory tests in some cases. OPD has a waiting hall with chairs, a TV, public utilities like drinking water and toilets. Sub waiting areas are available in front of individual consultation rooms. Wheel chairs, trolleys and attendants are there to help very sick patients.'),

array('Dental', 'An experienced Dental surgeon provides procedures like Dental Extractions, RCT, Scaling /Cleaning, Fillings, Local curettage.'),

array('Ward/ Indoor', 'Ward facilities for observation and management of medical problem like typhoid, acute gastroenteritis, COPD, bronchial asthma, malaria, viral fever, pneumonias etc. There are 3 wards, one special room and one well equipped emergency.'),

array('Minor OT/ Dressing Room', 'Provides services for minor surgical procedure like dressing of lacerated wound, suturing of minor lacerations & resuturing.'),

array('Physiotherapy', 'Range of physiotherapy services to assist the patients to recover from wide range of musculoskeletal pain-ful disorders. Available modalities are MWD, SWD, U/S, TENS, IFC laser therapy traction unit, magnolia.'),

array('Laboratory services', 'Trained laboratory staff are providing best services which includes painless blood withdrawal Services of one NABL accredited laboratory are also available for carrying out specialised tests, they collect sample from 8 AM to 12 noon. In IIT Hospital.

Sample collection time for IIT laboratory is 8 am to 10.30 am and upto 11:00 am for student while emergency tests like Blood sugar, platelet count & blood grouping done in emergent cases throughout OPD hours.'),

array('ECG Service', '24hours ECG services including machine report, done by trained staff.')

);

if(isset($_POST['search']))
{
echo "
<table border='1'>

<tr><th>Department</th>
<th>Facilities</th>
</tr>";

for($i=0;$i<sizeof($dept); $i++)
{
echo "<tr>";
for($j=0; $j<2; $j++)
{
    if( $dept[$i][$j]==$_POST['input'])
    {
        echo "<td>".$dept[$i][$j]."</td>";
        echo "<td>".$dept[$i][$j+1]."</td>";
    }
}
echo "</tr>";
}

echo "</table>";
}

if(isset($_POST['all']))
{

echo "
<table border='1'>

<tr><th>Department</th>
<th>Facilities</th>
</tr>";


}

```

```

for($i=0;$i<sizeof($dept); $i++)
{
echo "<tr>";
for($j=0; $j<2; $j++)
{
echo "<td>".$dept[$i][$j]."</td>";
}
echo "</tr>";
}

echo "</table>";

}
?>

</body>
</html>

```

Output

Screenshot of a web browser showing the output of the PHP script. The page title is "3Q_Hospital". The navigation bar includes "Home", "Department" (highlighted in green), "Sign Up", and "Login". On the left, there's a search form with fields for "Search Department" and "Enter Department Name", and buttons for "Search" and "Display ALL Department". The main content area displays a table with two columns: "Department" and "Facilities".

Department	Facilities
OPD (Allopathy & Homeopathy)	Patients are registered at the reception and are seen on first come, first serve basis, however out of turn consultation may be provided in case of emergency and senior citizen. Patients have the right to consult any doctor. In OPD, clinical consultation is provided to patients which includes history taking, clinical examination, diagnosis and providing prescription to patients besides advising laboratory tests in some cases. OPD has a waiting hall with chairs, a TV, public utilities like drinking water and toilets. Sub waiting areas are available in front of individual consultation rooms. Wheel chairs, trolleys and attendants are there to help very sick patients.
Dental	An experienced Dental surgeon provides procedures like Dental Extractions, RCT, Scaling /Cleaning, Fillings, Local curettage.
Ward/ Indoor	Ward facilities for observation and management of medical problem like typhoid, acute gastroenteritis, COPD, bronchial asthma, malaria, viral fever, pneumonias etc. There are 3 wards, one special room and one well equipped emergency.
Minor OT/ Dressing Room	Provides services for minor surgical procedure like dressing of lacerated wound, suturing of minor lacerations & resuturing.
Physiotherapy	Range of physiotherapy services to assist the patients to recover from wide range of musculoskeletal pain-ful disorders. Available modalities are MWD, SWD, U/S, TENS, IFC laser therapy traction unit, magnolia.
Laboratory services	Trained laboratory staff are providing best services which includes painless blood withdrawal Services of one NABL accredited laboratory are also available for carrying out specialised tests, they collect sample from 8 AM to 12 noon. In IIT Hospital. Sample collection time for IIT laboratory is 8 am to 10.30 am and upto 11:00 am for student while emergency tests like Blood sugar, platelet count & blood grouping done in emergent cases throughout OPD hours.

Screenshot of a web browser showing the output of the PHP script. The page title is "3Q_Hospital". The navigation bar includes "Home", "Department" (highlighted in green), "Sign Up", and "Login". On the left, there's a search form with fields for "Search Department" and "Enter Department Name", and buttons for "Search" and "Display ALL Department". The main content area displays a table with two columns: "Department" and "Facilities".

Department	Facilities
Laboratory services	Trained laboratory staff are providing best services which includes painless blood withdrawal Services of one NABL accredited laboratory are also available for carrying out specialised tests, they collect sample from 8 AM to 12 noon. In IIT Hospital. Sample collection time for IIT laboratory is 8 am to 10.30 am and upto 11:00 am for student while emergency tests like Blood sugar, platelet count & blood grouping done in emergent cases throughout OPD hours.

4. Develop a New Year countdown web application using HTML and PHP. The countdown timer should start from current time and date to the next New Year. i) Calculate the days, hours, minutes and seconds to the New Year. ii) The header must be specified as New Year countdown iii) Fix the relevant background for the application. Note: Use required conditional statement.

Source code

```
<!DOCTYPE HTML>
<html>

<head>
    <title>4Q_count_down</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <style>
        *{
            padding : 0; margin:0; font-family: "Trebuchet MS", Helvetica, sans-serif;
        }
        img {
            width: 100%;
            height: 565px;
        }
    </style>
</head>

<body >
    <center>
        <header>
            Next New Year(Jan 1, 2023) Comes in <br><p id="time"></p>
        </header>
        
        <!--<h2>* CURRENT DATE * <br>
        <?php
        echo date('d-m-y');
        ?>-->
    </center>

    <script>
        var countDownDate = <?php echo strtotime('Jan 01, 2023 00:00:00') ?> * 1000;
        var now = <?php echo time() ?> * 1000;

        var x = setInterval(function() {
            now = now + 1000;

            var distance = countDownDate - now;

            var days = Math.floor(distance / (1000 * 60 * 60 * 24));
            var hours = Math.floor((distance % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60));
            var minutes = Math.floor((distance % (1000 * 60 * 60)) / (1000 * 60));
            var seconds = Math.floor((distance % (1000 * 60)) / 1000);

            document.getElementById("time").innerHTML = days + " Days " + hours + " Hours " +
                minutes + " Minutes " + seconds + " Seconds ";

            if (distance < 0) {
                clearInterval(x);
                document.getElementById("time").innerHTML = "EXPIRED";
            }
        }, 1000);
    </script>
</body>

</html>
```

Output



5. Write a PHP program using nested for loop that creates a chess board with necessary inputs to be retrieved using HTML form.

Source code

```
<!DOCTYPE HTML>

<html>

<head>
 <title>5Q_chess_board</title>
 <style type="text/css">

 *{
 padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif;
 }
 body{
 display: flex;
 justify-content: center;
 align-items: center;
 min-height: 100vh;
 background-image: -webkit-linear-gradient(top right, #5CC3FF, #7C4CBF);
 background-image: linear-gradient(to bottom left, #5CC3FF, #7C4CBF);
 }

fieldset{
 display: inline-block;
 padding: 20px;
 margin: 10px 50px;
 border: 2px solid white;
 }
 legend{
 padding: 10px ;
 font-size: 20px;
 }

input[type='submit']
{
 padding: 10px 15px;
 font-size: 18px;
 background : black;
 color: white;
 border : 1px solid black;
 border-radius:5px;
 }

input[type='text']
{
 text-align: center;
 padding: 5px;
 border: 1px solid #A3A3A3;
 width:50px;
 }

td{
 height: 50px;
 width : 50px;
 }

table{
 border-collapse: collapse;
```

```

}


    font-size: 18px;
}

</style>

</head>

<body>

<div >

<fieldset>
<legend>Create Chess Board</legend>

<form action="5Qchess_board.php" method="post">

<center>
<input type="submit" name="normal" value="Click to Create Chess Board" />
<br><br>
<hr>
<br><br>
<h2>Customize your Chess Board</h2>
<br>
<span><b>Rows : </b></span> <input type="text" name="rows" /><br><br>
<span><b>Columns : </b></span><input type="text" name="cols" />

<br><br>
<input type="submit" name="custom" value="Create" />

</center>
</form>

</fieldset>

</div>

<div>
<table border='1'>
<?php
if(isset($_POST['normal']))
{
echo "<center><h1>Normal Chess Board</h1></center><br>";
for($i=0;$i<8;$i++)
{
echo "<tr>";
for($j=0;$j<8;$j++)
{
if(($j+$i)%2==0){echo "<td style='background:black'></td>";}
else{echo "<td style='background:white'></td>";}
}
echo "</tr>";
}
}

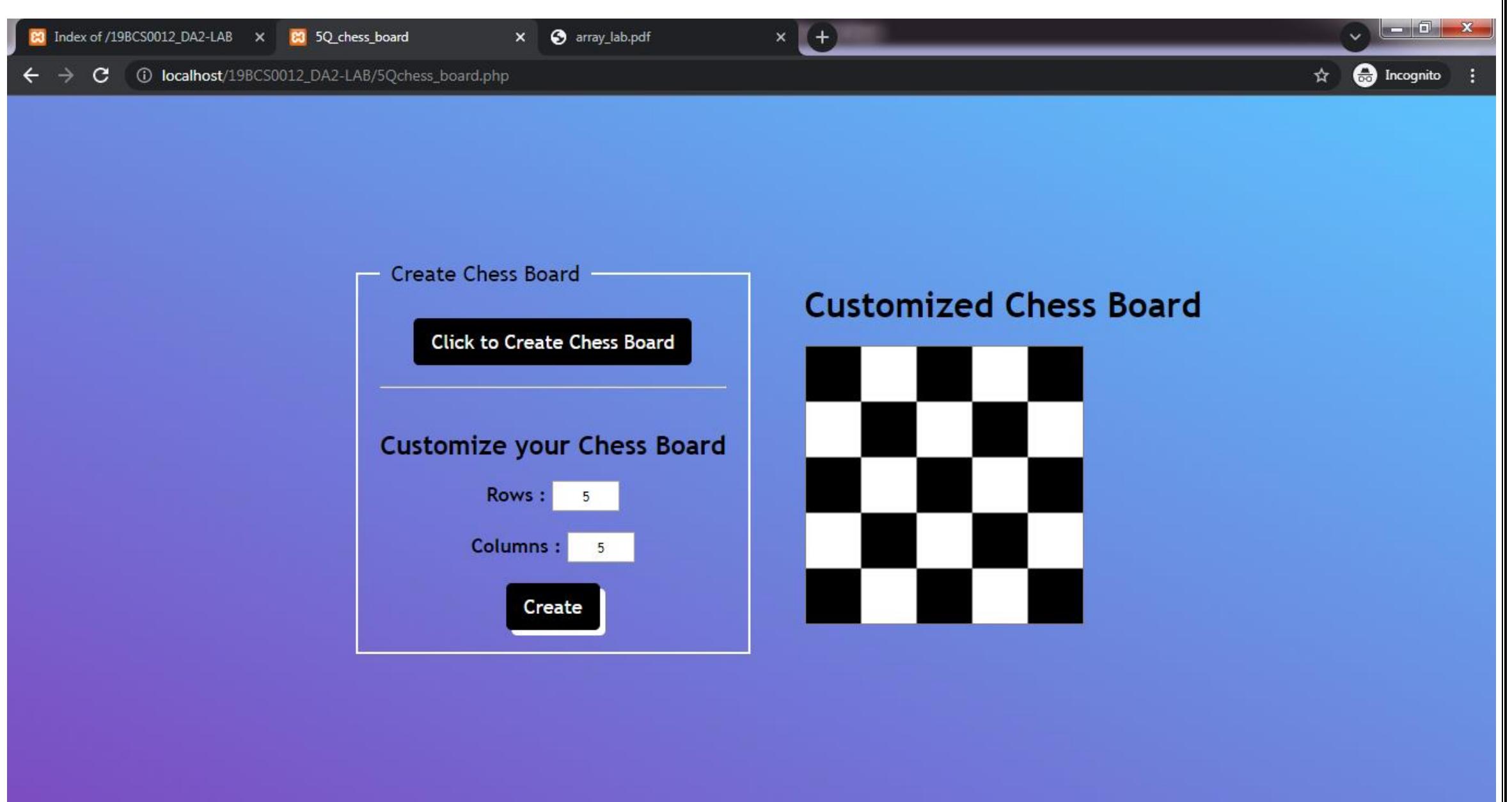
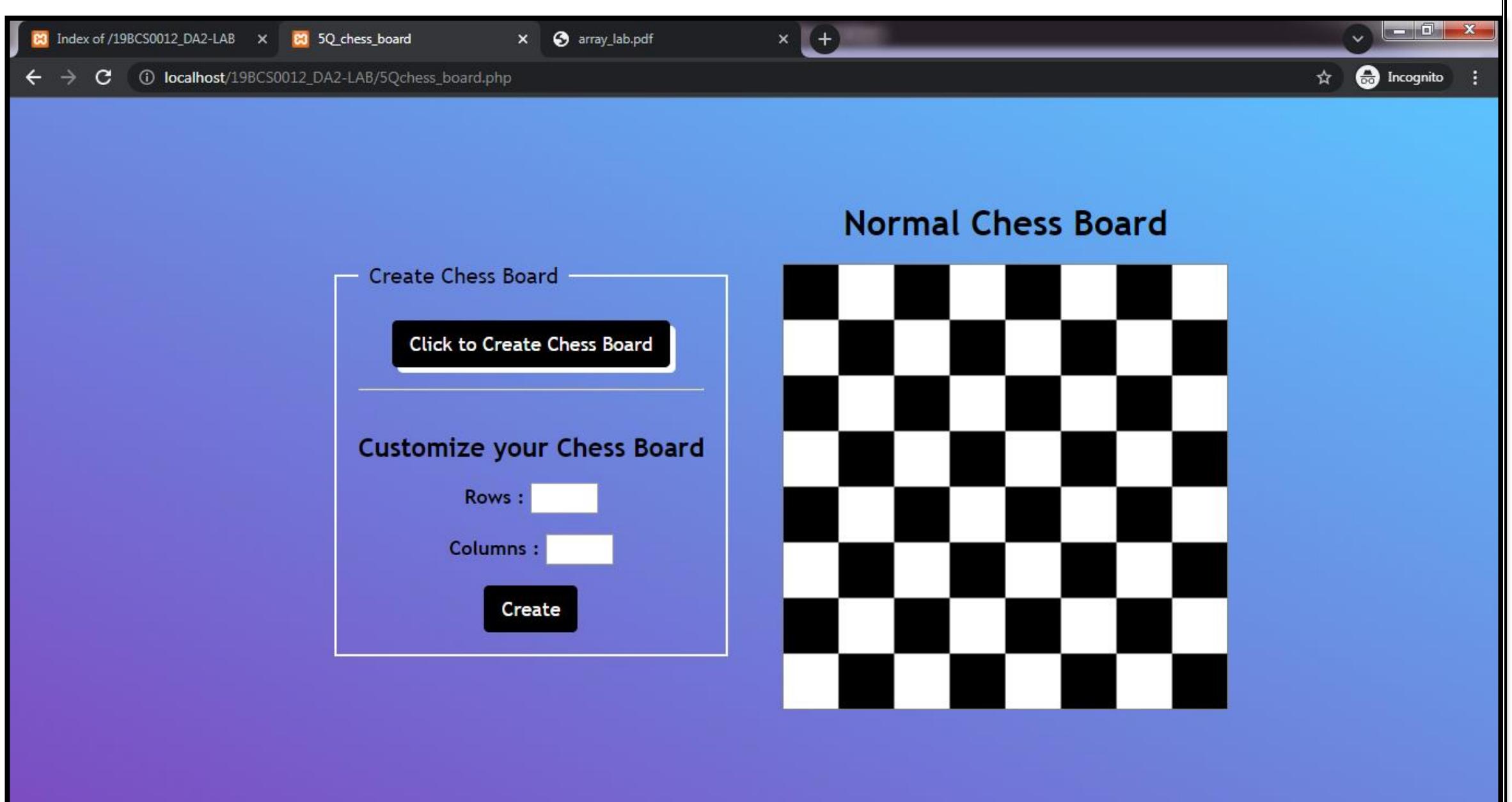
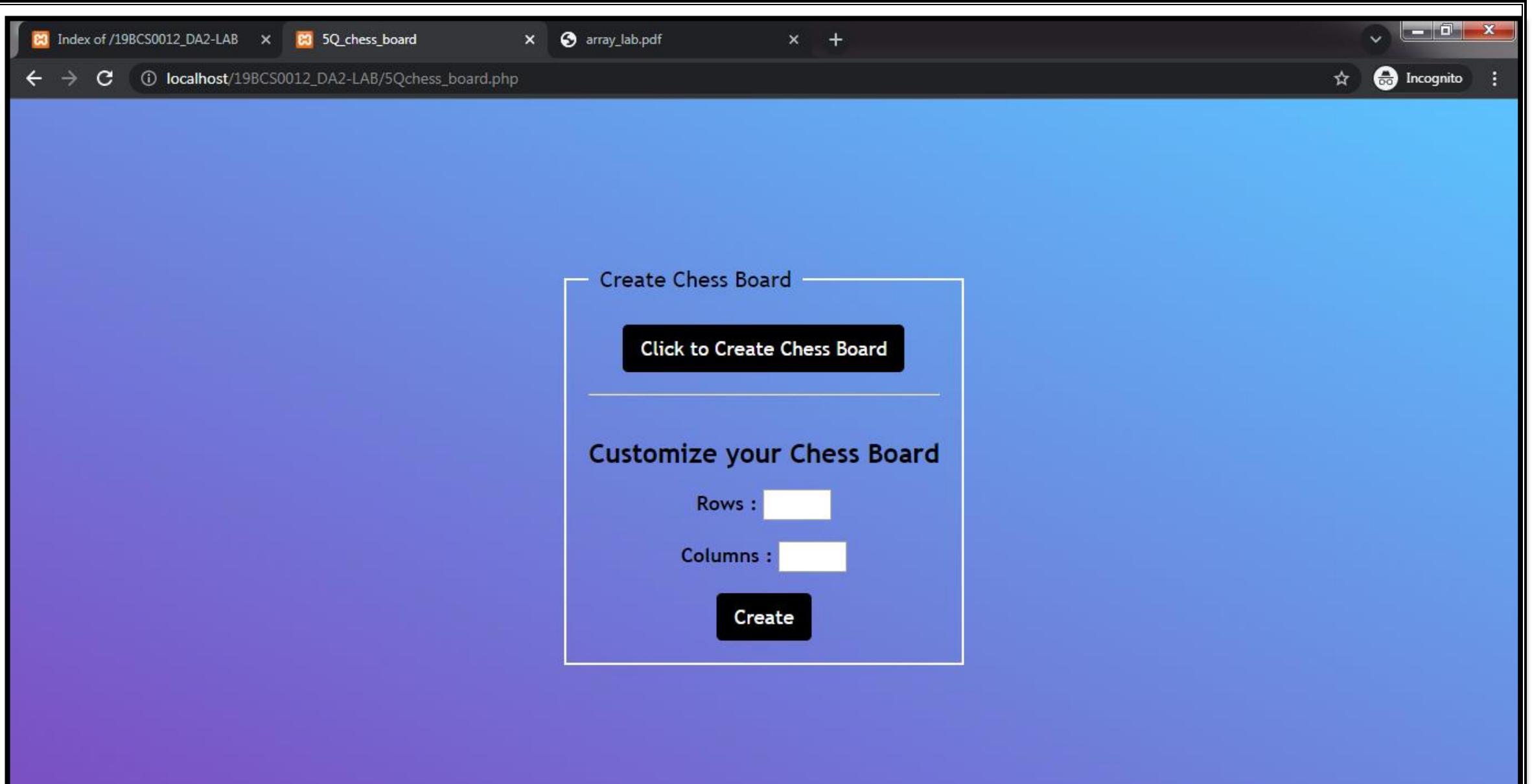
if(isset($_POST['custom']))
{
echo "<center><h1>Customized Chess Board</h1></center><br>";
for($i=0;$i<$_POST['rows'];$i++)
{
echo "<tr>";
for($j=0;$j<$_POST['cols'];$j++)
{
if(($j+$i)%2==0){echo "<td style='background:black'></td>";}
else{echo "<td style='background:white'></td>";}
}
echo "</tr>";
}
}

?>

</table>
</div>
</body>
</html>

```

Output



6. Develop a PHP program to generate Electricity Bill with the following conditions. For first 100 units – Rs. 0/unit, For next 100 units – Rs. 10.00/unit, For next 100 units – Rs. 20/unit, For units above 300 – Rs. 23.5/unit

Source code

```
<!DOCTYPE HTML>

<html>

<head>
    <title>6Q_Electricity_Bill</title>
    <style type="text/css">
        *{
            padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif;
        }
        body{
            display: flex;
            justify-content: center;
            align-items: center;
            min-height: 100vh;
            background-image: -webkit-linear-gradient(top right, #5CC3FF, #7C4CBF);
            background-image: linear-gradient(to bottom left, #5CC3FF, #7C4CBF);
        }
        fieldset{
            display: inline-block;
            padding: 20px;
            margin: 10px 50px;
            border: 2px solid white;
        }
        legend{
            padding: 10px ;
            font-size: 25px;
        }
        input[type='submit']
        {
            padding: 10px 15px;
            font-size: 18px;
            background : black;
            color: white;
            border : 1px solid black;
            border-radius:5px;
            width: 100%;
            letter-spacing: 1.5px;
        }
        input[type='number']
        {
            text-align: center;
            padding: 5px;
            border: 1px solid #A3A3A3;
            width:100px;
            border-radius: 15px;
            font-size: 20px;
        }
    </style>
</head>

<body>

    <div>
        <fieldset>
            <legend>Calculate Electricity Charges</legend>
            <form action="6Q_Electricity_Bill.php" method="post">
                <center>
                    <h1 style="color: white;">Enter Utilized Units</h1><br>
                    <input type="number" name="units" /><br><br>
                    <input type="submit" name="submit" />
                </center>
            </form>
        </fieldset>
    </div>

    <div>
        <?php
        if(isset($_POST['submit']))
        {
echo"            <fieldset>
                <legend>Electricity Bill</legend>
                <form>
                    <center>
                        <h1 style='color: white;'>Utilized Units</h1><br>
                        <h2 style='color: white;'>". $_POST['units'] ."</h2><br>
                        <hr style='width: 100%; height: 2px; background-color: #FFFFFF; border: none'><br>
                        <h1 style='color: white;'>Total Charges</h1><br> ";
                $first_unit_cost = 0;
                $second_unit_cost = 10.00;
                $third_unit_cost = 20.00;
                $fourth_unit_cost = 23.5;
                $units = $_POST['units'];
                if($units <= 100) {
                    $bill = $units * $first_unit_cost;
                }
                else if($units > 100 && $units <= 200) {
                    $temp = 100 * $first_unit_cost;
                    $remaining_units = $units - 100;
                    $bill = $temp + ($remaining_units * $second_unit_cost);
                }
                else if($units > 200 && $units <= 300) {
                    $temp = 100 * $first_unit_cost;
                    $remaining_units = $units - 200;
                    $bill = $temp + ($remaining_units * $third_unit_cost);
                }
                else {
                    $temp = 100 * $first_unit_cost;
                    $remaining_units = $units - 300;
                    $bill = $temp + ($remaining_units * $fourth_unit_cost);
                }
            </form>
        </fieldset>
    </div>
```

```

        $temp = (100 * $first_unit_cost) + (100 * $second_unit_cost);
        $remaining_units = $units - 200;
        $bill = $temp + ($remaining_units * $third_unit_cost);
    }
} else {
    $temp = (100 * $first_unit_cost) + (100 * $second_unit_cost) + (100 * $third_unit_cost);
    $remaining_units = $units - 300;
    $bill = $temp + ($remaining_units * $fourth_unit_cost);
}

echo "<h1 style='color: white;'>". number_format((float)$bill, 2, '.', ''). "</h1>";

echo "</center>
</form>

</fieldset>
";
}
?>
</div>

</body>
</html>

```

Output

Index of /19BCS0012_DA2-LAB 6Q_Electricity_Bill array_lab.pdf

localhost/19BCS0012_DA2-LAB/6Q_Electricity_Bill.php

Incognito

Calculate Electricity Charges

Enter Utilized Units

Submit

Index of /19BCS0012_DA2-LAB 6Q_Electricity_Bill array_lab.pdf

localhost/19BCS0012_DA2-LAB/6Q_Electricity_Bill.php

Incognito

Calculate Electricity Charges

Enter Utilized Units

Submit

Electricity Bill

Utilized Units

100

Total Charges

0.00

Index of /19BCS0012_DA2-LAB

6Q_Electricity_Bill

array_lab.pdf

localhost/19BCS0012_DA2-LAB/6Q_Electricity_Bill.php

Incognito

Calculate Electricity Charges

Enter Utilized Units

163

Submit

Electricity Bill

Utilized Units

163

Total Charges

630.00

Index of /19BCS0012_DA2-LAB

6Q_Electricity_Bill

array_lab.pdf

localhost/19BCS0012_DA2-LAB/6Q_Electricity_Bill.php

Incognito

Calculate Electricity Charges

Enter Utilized Units

247

Submit

Electricity Bill

Utilized Units

247

Total Charges

1940.00

Index of /19BCS0012_DA2-LAB

6Q_Electricity_Bill

array_lab.pdf

localhost/19BCS0012_DA2-LAB/6Q_Electricity_Bill.php

Incognito

Calculate Electricity Charges

Enter Utilized Units

357

Submit

Electricity Bill

Utilized Units

357

Total Charges

4339.50

7. Write a function missing() which finds out the missing ranks from an array of ranks. Array of ranks contain ranks from only 0 to 10 except a some rank. Write a PHP program to find the missing rank and insert the missing rank into the array. If a rank value goes out of the range, display an appropriate error message

Source code

```
<!DOCTYPE HTML>

<html>
<head>
    <title>7Q_Missing_Rank</title>
    <style type="text/css">
        *{
            padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif;
        }
        body{
            display: flex;
            justify-content: center;
            align-items: center;
            min-height: 100vh;
            background-image: -webkit-linear-gradient(top right, #5CC3FF, #7C4CBF);
            background-image: linear-gradient(to bottom left, #5CC3FF, #7C4CBF);
        }
        fieldset{
            display: inline-block;
            padding: 20px;
            margin: 10px 50px;
            border: 2px solid white;
        }
        legend{
            padding: 10px ;
            font-size: 25px;
        }
        input[type='submit']
        {
            padding: 10px 15px;
            font-size: 18px;
            background : black;
            color: white;
            border : 1px solid black;
            border-radius:5px;
            width: 100%;
            letter-spacing: 1.5px;
        }
        input[type='number']
        {
            text-align: center;
            padding: 5px;
            border: 1px solid #A3A3A3;
            width:100px;
            border-radius: 15px;
            font-size: 20px;
        }
        h3{
            color: white;
        }
    </style>

</head>
<body>
<fieldset>
    <legend>Find Missing Rank in Given Array</legend>
    <form action="7Q_Missing_Rank.php" method="post">
        <center>
            <?php
                static $flag = 0;
                if($flag==0)
                {
                    $arr = array(0,1,2,5,7,9);

                    echo "<h3> Ranks in Array - ";
                    for($i=0;$i<sizeof($arr);$i++)
                    {
                        echo $arr[$i].", ";
                    }
                    echo "</h3>";
                }

                else{
                    echo "<h3> Ranks in Array - ";
                    for($i=0;$i<sizeof($arr);$i++)
                    {
                        echo $arr[$i].", ";
                    }
                    echo "</h3>";
                }
            ?>
            <br><hr><br>
            <h3>Search Rank in Array</h3>
            <br>
            <input type="submit" name="missing" value="Find Missing Rank" />
            <br><br><br><br><br>
            <input type="number" name="input" style=" border: 1px solid white; padding: 10px; width: 200px; border-radius: 50px; text-align: center; "
        />
    </form>
</fieldset>
</body>
```

```

<br><br>
<input type="submit" name="insert_rank" value="Insert Missing Rank" />

<br><br><hr><br>

</center>
</form>

</fieldset>

<div style="border: 2px solid white; padding: 20px; margin: 10px;">
<?php
if(isset($_POST['missing']))
{
    $missing_arr = array();
    function missing()
    {

echo "<h3> Missing Ranks in Array - ";
global $arr;

global $missing_arr;

for($i=0;$i<11;$i++)
{
    $found = 0;
    for($j=0;$j<sizeof($arr);$j++)
    {
        if($arr[$j]==$i){$found++;}
    }

    if($found==0){array_push($missing_arr,$i);}

}

for($i=0;$i<sizeof($missing_arr);$i++)
{
    echo $missing_arr[$i].", ";
}
echo "</h3>";

}

missing();
}

if(isset($_POST['insert_rank']))
{
    $ip = $_POST['input'];
    global $arr;

    if($ip<=10)
    {
        $found = 0;
        for($i=0;$i<sizeof($arr);$i++)
        {
            if($ip==$arr[$i])
            {
                echo "<h2 style='color:red;padding: 10px;background : black'>".$ip." is already exist can't Insert </h2>";
                $found = 1;
                break;
            }
        }

        if($found==0)
        {
            global $arr;
            array_push($arr,$ip);

echo "<h3> Given Rank is Inserted <br> <br> Now Ranks in Array - ";
for($i=0;$i<sizeof($arr);$i++)
{
    echo $arr[$i].", ";
}
echo "</h3>";

        }
    }
    else{
        echo "<h2 style='color:red;padding: 10px;background : black'>".$ip." Exit the Rank limit(0-10) </h2>";
    }
}
?>
</div>

</body>

</html>

```

Output

Find Missing Rank in Given Array

Ranks in Array - 0, 1, 2, 5, 7, 9,

Search Rank in Array

Find Missing Rank

Insert Missing Rank

Find Missing Rank in Given Array

Ranks in Array - 0, 1, 2, 5, 7, 9,

Search Rank in Array

Find Missing Rank

Insert Missing Rank

Missing Ranks in Array - 3, 4, 6, 8, 10,

Find Missing Rank in Given Array

Ranks in Array - 0, 1, 2, 5, 7, 9,

Search Rank in Array

Find Missing Rank

Insert Missing Rank

13

13 Exit the Rank limit(0-10)

Find Missing Rank in Given Array

Ranks in Array - 0, 1, 2, 5, 7, 9,

Search Rank in Array

Find Missing Rank

5

Insert Missing Rank

5 is already exist can't Insert

Find Missing Rank in Given Array

Ranks in Array - 0, 1, 2, 5, 7, 9,

Search Rank in Array

Find Missing Rank

10

Insert Missing Rank

Given Rank is Inserted

Now Ranks in Array - 0, 1, 2, 5, 7, 9, 10,

8. Write a HTML and PHP code for an online bus booking system that allows you to manage your bus fares, routes, schedules board point, drop point, promo code management etc. Consider 5 cities and fix the price for moving from one city to other. Calculate the final bill to be paid for the tickets that is booked by a person by including the promo code. Use associate array

Source code

```
<!DOCTYPE HTML>
<html>
<head>
    <title>8Q_Bus_booking</title>
    <style type="text/css">
        *{
            padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif;
        }
        body{
            display: flex;
            justify-content: center;
            align-items: center;
            min-height: 100vh;
            background-image: -webkit-linear-gradient(top right, #5CC3FF, #7C4CBF);
            background-image: linear-gradient(to bottom left, #5CC3FF, #7C4CBF);
        }
        fieldset{
            display: inline-block;
            padding: 20px;
            margin: 10px 50px;
            border: 2px solid white;
        }
        legend{
            padding: 10px ;
            font-size: 25px;
        }
    </style>
</head>
<body>
    <form>
        <table border="1">
            <thead>
                <tr>
                    <th>From City</th>
                    <th>To City</th>
                    <th>Fare</th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <td>Delhi</td>
                    <td>Mumbai</td>
                    <td>1000</td>
                </tr>
                <tr>
                    <td>Delhi</td>
                    <td>Kolkata</td>
                    <td>800</td>
                </tr>
                <tr>
                    <td>Delhi</td>
                    <td>Chennai</td>
                    <td>1200</td>
                </tr>
                <tr>
                    <td>Delhi</td>
                    <td>Bangalore</td>
                    <td>900</td>
                </tr>
                <tr>
                    <td>Delhi</td>
                    <td>Hyderabad</td>
                    <td>1100</td>
                </tr>
            </tbody>
        </table>
        <input type="text" value="Enter City Name" />
        <input type="button" value="Search" />
    </form>
</body>
</html>
```

```

select{
  padding: 5px 10px;
  border-radius: 5px;
}
input[type='submit']
{
  padding: 10px 15px;
  font-size: 18px;
  background : black;
  color: white;
  border : 1px solid black;
  border-radius:5px;
  width: 100%;
  letter-spacing: 1.5px;
}
h3{    color: white;    }

</style>
</head>

<body>

<fieldset>
  <legend>Online Bus Booking</legend>

  <form action="8Q_Bus_booking.php" method="post">
    <center>
      <span style="font-size: large;color:#FFFFFF">Schedules Board point - </span>
      <select name="from">
        <option>---</option>
        <option>Vellore</option>
        <option>Chennai</option>
        <option>Coimbatore</option>
        <option>Salem</option>
        <option>Cuddalore</option>
      </select>

      <br><br>
      <span style="font-size: large;color:#FFFFFF">Schedules Drop point - </span>
      <select name="to">
        <option>---</option>
        <option>Vellore</option>
        <option>Chennai</option>
        <option>Coimbatore</option>
        <option>Salem</option>
        <option>Cuddalore</option>
      </select>

      <br><br>
      <span style="font-size: large;color:#FFFFFF">Choose Route - </span>
      <select name="route">
        <option>---</option>
        <option>NH 77</option>
        <option>NH 34</option>
        <option>NH 12</option>
      </select>

      <br><br><h2 style="color: black">Promo code</h2><br>
      <select name="promo">
        <option>---</option>
        <option>NITHISH12#</option>
        <option>NITHISH007#</option>
        <option>BUS009#</option>
      </select>

      <br><br>
      <input type="submit" name="submit" value="Submit"  />
    </center>
  </form>
</fieldset>

```

```

<div>

<?php
if(isset($_POST['submit']))
{
  echo "<fieldset> <legend>Bus Fares</legend>";

  echo "<h3>Board Point : " .$_POST['from']. "</h3><br>";
  echo "<h3>Drop Point : " .$_POST['to']. "</h3><br>";
  echo "<h3>Route Point : " .$_POST['route']. "</h3><br>";

  $city = array('Vellore','Chennai','Coimbatore','Salem','Cuddalore');
  $cost = 54;

  $from = array_search($_POST['from'],$city);
  ++$from;
  $to = array_search($_POST['to'],$city);
  ++$to;

  $fare = $to*$cost - $from*$cost;

  echo "<h3>Charges : " .$fare."</h3><br>";

  echo "<h3>Promo code : " .$_POST['promo']. "</h3><br>";

  $discount = 0;
  $promo = array("NITHISH12#"=>"30","NITHISH007#"=>"45","BUS009"=>"55");
}

```

```

foreach($promo as $x => $x_value) {
    if($x== $_POST['promo'])
    {
        $discount = $x_value;
    }
}

echo "<h3>Discount : " . $discount . "</h3><br>";

echo "<h3 style='background:black; color : white; padding : 10px; text-align: center'>
Total Bus Fare : " . $fare-$discount . "</h3><br>";
echo "</fieldset>";

}

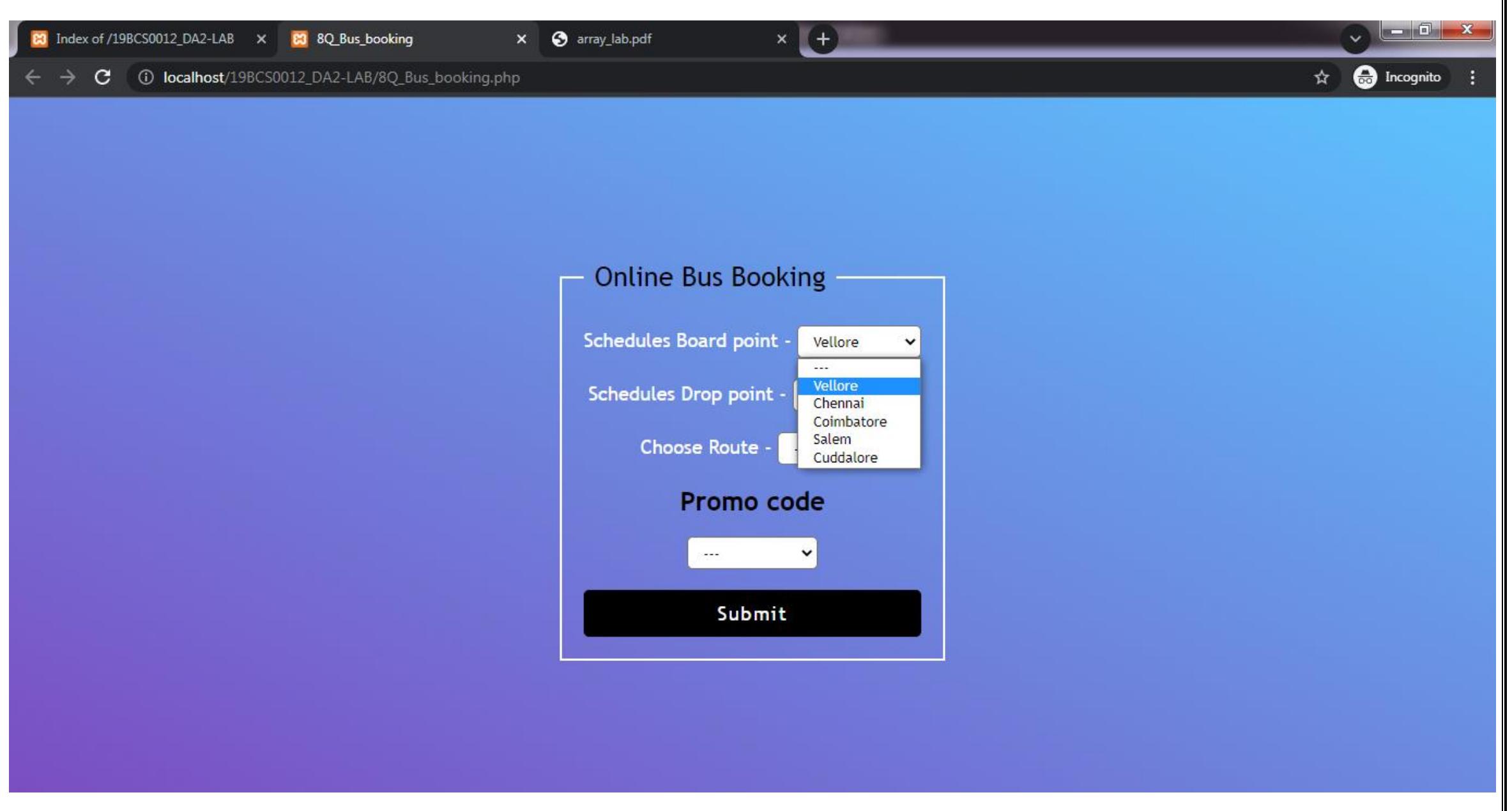
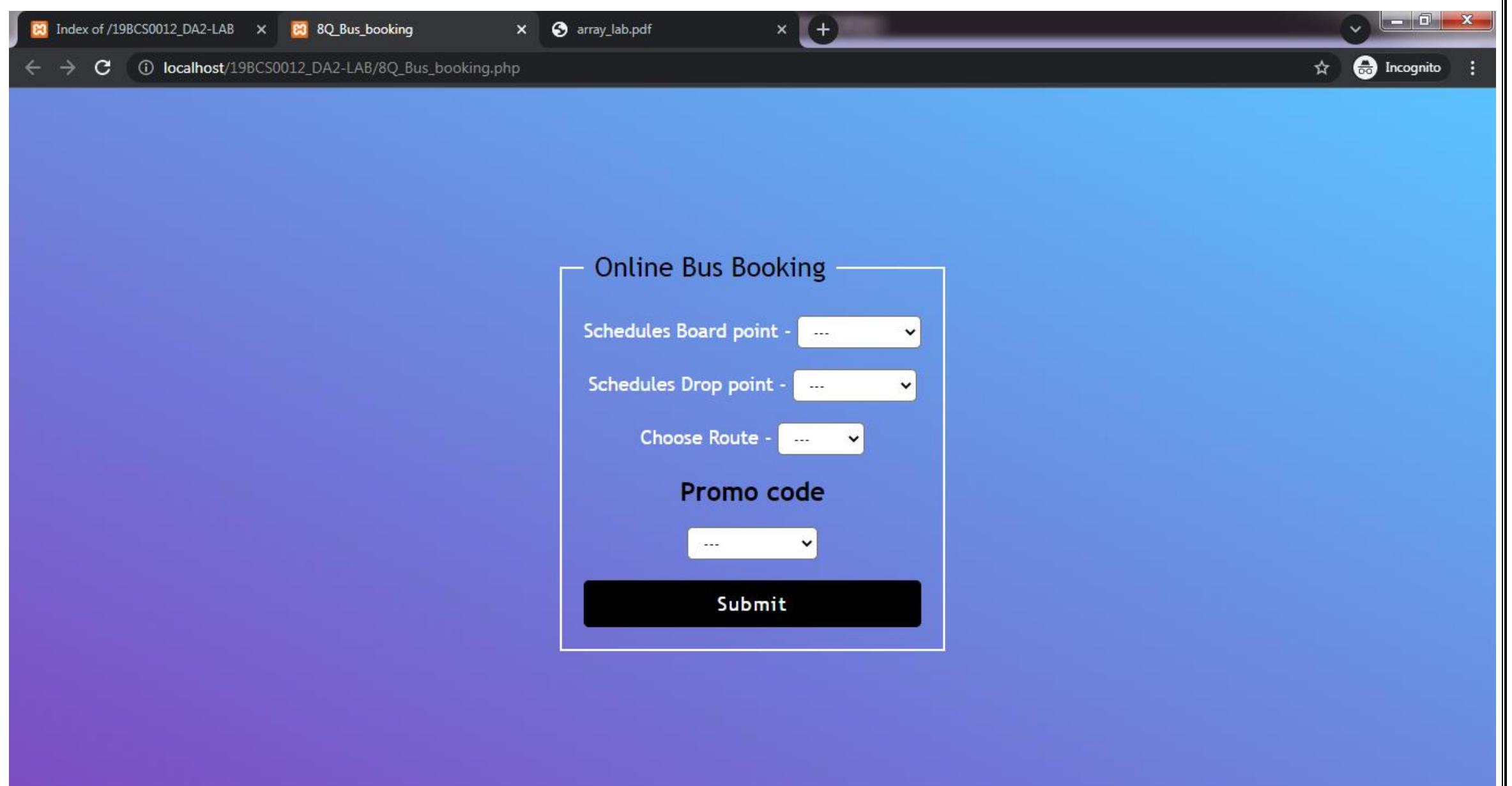
?>

</div>

</body>

</html>

```



Online Bus Booking

Schedules Board point - Vellore

Schedules Drop point - Salem

Choose Route -

-
- Vellore
- Chennai
- Coimbatore
- Salem**
- Cuddalore

Promo code

Submit

Online Bus Booking

Schedules Board point - Vellore

Schedules Drop point - Salem

Choose Route - NH 34

-
- NH 77
- NH 34**
- NH 12

Promo code

Submit

Online Bus Booking

Schedules Board point - Vellore

Schedules Drop point - Salem

Choose Route - NH 34

Promo code

NITHISH12#

- NITHISH12#**
- NITHISH007#
- BUS009#

Online Bus Booking

Schedules Board point -

Schedules Drop point -

Choose Route -

Promo code

Submit

Online Bus Booking

Schedules Board point -

Schedules Drop point -

Choose Route -

Promo code

Submit

Bus Fares

Board Point : Vellore

Drop Point : Salem

Route Point : NH 34

Charges : 162

Promo code : NITHISH12#

Discount : 30

Total Bus Fare : 132

9. Write a HTML and PHP code for an online banking system that allows you to manage the transaction details of different users. Print the balance amount of each user multidimensional arrays along with the transaction details and balance amount . Ex: input : Array(name=>xyz, credit amount=> 1000, debit amount => 500) O/P Array(name=>xyz, credit amount=> 1000, debit amount => 500, Balance => 500)

Source code

```
<!DOCTYPE HTML>
<html>
<head>
    <title>9Q_Online_Banking_system</title>
    <style type="text/css">
        *{
            padding: 0; margin: 0; font-family: "Trebuchet MS", Helvetica, sans-serif;
        }
        body{
            display: flex;
            justify-content: center;
            align-items: center;
            min-height: 100vh;
            background-image: -webkit-linear-gradient(top right, #5CC3FF, #7C4CBF);
            background-image: linear-gradient(to bottom left, #5CC3FF, #7C4CBF);
            font-family: "Trebuchet MS", Helvetica, sans-serif;
        }
        fieldset{
            display: inline-block;
            padding: 20px;
            margin: 10px 50px;
            border: 2px solid white;
        }
        legend{
            padding: 10px ;
            font-size: 25px;
        }
    </style>
</head>
<body>
    <form>
        <table border="1">
            <tr>
                <td>Name :</td>
                <td><input type="text" value="xyz"/></td>
            </tr>
            <tr>
                <td>Credit Amount :</td>
                <td><input type="text" value="1000"/></td>
            </tr>
            <tr>
                <td>Debit Amount :</td>
                <td><input type="text" value="500"/></td>
            </tr>
            <tr>
                <td>Balance :</td>
                <td><input type="text" value="500"/></td>
            </tr>
        </table>
        <input type="button" value="Submit" />
    </form>
</body>
</html>
```



```

{
echo "<div>";
global $acc;

echo "<h1 style='color: white;'>Transaction Outputs</h1><br>
<table border='1'>
<tr>
<th>Name</th>
<th>Credit amount</th>
<th>Debit amount</th>
<th>Balance</th>
</tr> ";
$crd=0; $deb=0;
for($i=0;$i<sizeof($acc);$i++)
{
echo "<tr>";
for($j=0;$j<3;$j++)
{
echo "<td>" . $acc[$i][$j] . "</td>";

if($j==1) { $crd = $acc[$i][$j]; }
else if($j==2) { $deb = $acc[$i][$j]; echo "<td>" . $crd-$deb . "</td>"; }

echo "</tr>";
}
echo "</div>";
}
?>

</body>
</html>

```

Output

Name	Credit amount	Debit amount
Nithish	57000	1300
Ram	43000	2600
Gokul	22000	3300
Kumar	17000	800
Jim	31000	900
Calvin	2100	1100

Check Output

Name	Credit amount	Debit amount	Balance
Nithish	57000	1300	55700
Ram	43000	2600	40400
Gokul	22000	3300	18700
Kumar	17000	800	16200
Jim	31000	900	30100
Calvin	2100	1100	1000

Check Output

10. Perform the following operations in Array/Associative Array.

- 1) Compare two associative array elements whether they are equal.Check whether an element present in an array or not.
- 2) Display the elements present in an associative array in reverse order based on values.
- 3)Extract the portion of the array and display.
- 4)Replace the array elements with some other values.

Source code

```
<!DOCTYPE HTML>

<html>
<head>
    <title>10Q_array_opr</title>
    <style type="text/css">
        *{
            font-family: "Trebuchet MS", Helvetica, sans-serif;
        }
        body{
            display: flex;
            justify-content: center;
            align-items: center;
            min-height: 100vh;
            background-image: -webkit-linear-gradient(top right, #5CC3FF, #7C4CBF);
            background-image: linear-gradient(to bottom left, #5CC3FF, #7C4CBF);
        }
        fieldset{
            display: inline-block;
            margin: 20px;
            background: black;
            color: white;
            padding: 20px;
        }
        legend{
            padding: 10px;
            border: 1px solid white;
        }
        .result{
            border: 1px solid black;
            padding: 10px;
            min-height: 150px;
            min-width: 150px;
        }
        div{
            padding: 20px;
            background: white;
            color: black;
        }
        input[type='text']){
            padding: 5px; border-radius: 8px;
        }
        input[type='submit']
        {
            background: white;
            color: black;
            border: 1px solid white;
            font-size : large;
            padding: 5px;
            border-radius : 5px;
        }
    </style>
</head>
<body>

<?php

$a1=array("Ram","Nithish","Ramesh","Kumar","calvin");

$arr1 = array( 'first_name' => 'Ram',
                'last_name' => 'kumar',
                'age' => '20'
            );
$arr2 = array( 'first_name' => 'Vishnu',
                'last_name' => 'kumar',
                'age' => '23'
            );
$arr3 = array( 'first_name' => 'Vishnu',
                'last_name' => 'kumar',
                'age' => '23'
            );

echo "<div style='margin:20px;'> <h4> Array <br><br>";
for($i=0;$i<sizeof($a1);$i++)
{
    echo $a1[$i]."<br>";
}
echo "</h4></div>";

echo "<div><h4> Associative Arrays<br><br> Array 1 <br><br>";

foreach($arr1 as $ar_key => $ar_value) {
    echo "Key = " . $ar_key . ", Value = " . $ar_value;
    echo "<br>";
}

echo "<br>Array 2 <br>";

foreach($arr2 as $ar_key => $ar_value) {
```

```

echo "Key = " . $ar_key . ", Value = " . $ar_value;
echo "<br>";
}
echo "</h4></div>";

?>

<fieldset>
<legend>Array Operations</legend>
<form action="10Q_array_opr.php" method="post">

<br><input type="submit" name="chk_ary_same" value="Check Array1 & 2 are same" />
<h4>Search an element in Array 1</h4>
<input type="text" name="srch_ip" />
<input type="submit" name="srch_ele" />

<br><br>
<input type="submit" name="ksort" value="Sort array1 in ascending order, according to the key:" />
<br><br>
<input type="submit" name="krsort" value="Sort array1 in descending order, according to the key:" />
<br><br>
<input type="submit" name="asort" value="Sort array1 in ascending order, according to the values:" />
<br><br>
<input type="submit" name="arsort" value="Sort array1 in descending order, according to the values:" />

<br><br> Extract portion of Array1
<input type="number" name="from" style='width:50px' />
<input type="number" name="to" style='width:50px' />
<input type="submit" name="slice" value="Slice" style='width:50px' />
<br><br>
<input type="submit" name="replace" value="Replace the array" />

</form>
</fieldset>

<div class="result" >
<?php
if(isset($_POST['chk_ary_same']))
{
if ($arr1 == $arr2)
    echo "<br>Both arrays are same\n";
else
    echo "<br>Both arrays are not same\n";
echo "</h4>";
}

if(isset($_POST['srch_ele']))
{

if(array_search($_POST['srch_ip'],$arr1))
{   echo $_POST['srch_ip'].' is found in array 1'; }
else{   echo $_POST['srch_ip']. ' is Not found in array 1<br><br>'; }

if(isset($_POST['ksort']))
{
    ksort($arr1);

    echo "<div><h4> Array 1 <br>";

    foreach($arr1 as $ar_key => $ar_value) {
        echo "Key = " . $ar_key . ", Value = " . $ar_value;
        echo "<br>";
    }
}

if(isset($_POST['krsort']))
{
    krsort($arr1);

    echo "<div><h4> Array 1 <br>";

    foreach($arr1 as $ar_key => $ar_value) {
        echo "Key = " . $ar_key . ", Value = " . $ar_value;
        echo "<br>";
    }
}

if(isset($_POST['asort']))
{
    asort($arr1);

    echo "<div><h4> Array 1 <br>";

    foreach($arr1 as $ar_key => $ar_value) {
        echo "Key = " . $ar_key . ", Value = " . $ar_value;
        echo "<br>";
    }
}

if(isset($_POST['arsort']))
{
    arsort($arr1);

    echo "<div><h4> Array 1 <br>";

    foreach($arr1 as $ar_key => $ar_value) {
        echo "Key = " . $ar_key . ", Value = " . $ar_value;
        echo "<br>";
    }
}

if(isset($_POST['slice']))
{
}
}

```

```

{
    print_r(array_slice($a1,$_POST['from'],$_POST['to']));
}

if(isset($_POST['replace']))
{
echo "<h4>Associative Array 1 is replaced by Associative Array 2 </h4>";
$replaced = array_replace($arr1, $arr2);
print_r($replaced);
}

?>
</div>
</body>

</html>

```

Output

Index of /19BCS0012_DA2-LAB 10Q_array_opr

localhost/19BCS0012_DA2-LAB/10Q_array_opr.php

Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1

Replace the array

Both arrays are not same

Index of /19BCS0012_DA2-LAB 10Q_array_opr

localhost/19BCS0012_DA2-LAB/10Q_array_opr.php

Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1

Replace the array

Ram is found in array 1

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Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Submit

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1 Slice

Replace the array

Associative Arrays

Array 1
Key = first_name, Value = Ram
Key = last_name, Value = kumar
Key = age, Value = 20

Array 2
Key = first_name, Value = Vishnu
Key = last_name, Value = kumar
Key = age, Value = 23

Array 1
Key = age, Value = 20
Key = first_name, Value = Ram
Key = last_name, Value = kumar

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Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Submit

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1 Slice

Replace the array

Associative Arrays

Array 1
Key = first_name, Value = Ram
Key = last_name, Value = kumar
Key = age, Value = 20

Array 2
Key = first_name, Value = Vishnu
Key = last_name, Value = kumar
Key = age, Value = 23

Array 1
Key = last_name, Value = kumar
Key = first_name, Value = Ram
Key = age, Value = 20

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Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Submit

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1 Slice

Replace the array

Associative Arrays

Array 1
Key = first_name, Value = Ram
Key = last_name, Value = kumar
Key = age, Value = 20

Array 2
Key = first_name, Value = Vishnu
Key = last_name, Value = kumar
Key = age, Value = 23

Array 1
Key = age, Value = 20
Key = first_name, Value = Ram
Key = last_name, Value = kumar

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Incognito

Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Submit

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1 Slice

Replace the array

Associative Arrays

Array 1
Key = first_name, Value = Ram
Key = last_name, Value = kumar
Key = age, Value = 20

Array 2
Key = first_name, Value = Vishnu
Key = last_name, Value = kumar
Key = age, Value = 23

Array 1
Key = last_name, Value = kumar
Key = first_name, Value = Ram
Key = age, Value = 20

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Incognito

Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Submit

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1 Slice

Replace the array

Associative Arrays

Array 1
Key = first_name, Value = Ram
Key = last_name, Value = kumar
Key = age, Value = 20

Array 2
Key = first_name, Value = Vishnu
Key = last_name, Value = kumar
Key = age, Value = 23

Array ([0] => Ram [1] => Nithish)

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Incognito

Array Operations

Check Array1 & 2 are same

Search an element in Array 1

Submit

Sort array1 in ascending order, according to the key:

Sort array1 in descending order, according to the key:

Sort array1 in ascending order, according to the values:

Sort array1 in descending order, according to the values:

Extract portion of Array1 Slice

Replace the array

Associative Arrays

Array 1
Key = first_name, Value = Ram
Key = last_name, Value = kumar
Key = age, Value = 20

Array 2
Key = first_name, Value = Vishnu
Key = last_name, Value = kumar
Key = age, Value = 23

Associative Array 1 is replaced by Associative Array 2

Array ([first_name] => Vishnu [last_name] => kumar [age] => 23)

Thank You Mam!