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Batch: A

<u>Experiment No:7(B)</u>

7(b) Write a PHP script to display numeric, associative and multidimensional array with for each loop.

<u>Objective</u>: To learn about concept and implementation of JAVASCRIPT

<u>Theory</u>:

PHP stands for Hypertext Preprocessor. PHP is a very popular and widely-used open source server-side scripting language to write dynamically generated web pages. PHP was originally created by Rasmus Lerdorf in 1994. It was initially known as Personal Home Page.PHP scripts are executed on the server and the result is sent to the web browser as plain HTML. PHP can be integrated with the number of popular databases, including MySQL, PostgreSQL, Oracle, Microsoft SQL Server, Sybase, and so on

Data Types in PHP

The values assigned to a PHP variable may be of different data types including simple string and numeric types to more complex data types like arrays and objects.

PHP supports total eight primitive data types: Integer, Floating point number or Float, String, Booleans, Array, Object, resource and NULL. These data types are used to construct variables. Now let's discuss each one of them in detail.

What is PHP Arrays

Arrays are complex variables that allow us to store more than one value or a group of values under a single variable name.

Types of Arrays in PHP

There are three types of arrays that you can create. These are:

- **Indexed array/ Numeric array** — An array with a numeric key.
- **Associative array** — An array where each key has its own specific value.
- **Multidimensional array** — An array containing one or more arrays within itself.

PHP Database connection

Requirements: XAMPP web server procedure:

Start XAMPP server by starting

Apache and MySQL. Write PHP script

for connecting to XAMPP.

Run it in the local browser.

Database is successfully created which is based on the PHP code.

In PHP, we can connect to the database using XAMPP web server by using the following path. "localhost/phpmyadmin".

Conclusion: Thus the code has been successfully completed.

Code:

```html
<!DOCTYPE html>
<html>
<head>
<title> Arrays in PHP </title>

<style>

body{
    font-family: Arial,sans-serif;
    background-color: #f2f2f2;
}

h2{
    text-align:center;
    margin-top:30px;
    color:#1e90ff;
}

table{
    margin:0 auto;
    border-collapse:collapse;
    background-color:#fff;
    box-shadow:0 0 10px rgba(0,0,0,0.1);
    margin-top:50px;
    border-radius: 10px;
}

th,td {
padding: 10px;
border: 1px solid #ddd;
text-align: center;
}

th {
background-color: #1e90ff;
color: #fff;
font-weight: bold;
text-transform: uppercase;
letter-spacing: 1px;
font-size: 14px;
}
```

```
    td {
      color: #333;
      font-size: 14px;
    }

    .numeric {
      background-color: #ffd54f;
    }

    .assoc {
      background-color: #f44336;
    }

    .multi {
      background-color: #4caf50;
    }
  </style>
</head>
<body>
    <h2>Numeric Array</h2>
    <table class="numeric">
    <tr>
    <th>Index</th>
    <th>Value</th>
    </tr>
    <?php
    $numeric_array = array(10,20,30,40,50);
    foreach($numeric_array as $index => $value) {
        echo "<tr><td>$index</td><td>$value</td></tr>";
    }
    ?>
    </table>
    <h2>Associative Array</h2>
    <table class="assoc">
    <tr>
    <th>Key</th>
    <th>Value</th>
    </tr>
<?php
$assoc_array = array("name" => "John", "age" => 30, "city" => "New
York");
foreach ($assoc_array as $key => $value) {
echo "<tr><td>$key</td><td>$value</td></tr>";
}
?>
</table>
<h2>Multidimensional Array</h2>
<table class="multi">
<tr>
<th>Name</th>
<th>Age</th>
<th>City</th>
</tr>
<?php
$multi_array = array(
array("name" => "John", "age" => 30, "city" => "New York"),
array("name" => "Mary", "age" => 25, "city" => "Los Angeles"),
array("name" => "Tom", "age" => 35, "city" => "Chicago")
);
foreach ($multi_array as $item) {
echo
"<tr><td>{$item['name']}</td><td>{$item['age']}</td><td>{$item['city']}<
/td></tr>";
}
?>
</table>
</body>
</html>
```

Output (Screenshots):

Numeric Array

INDEX	VALUE
0	10
1	20
2	30
3	40
4	50

Associative Array

KEY	VALUE
name	John
age	30
city	New York

Multidimensional Array

NAME	AGE	CITY
John	30	New York< /td>
Mary	25	Los Angeles< /td>
Tom	35	Chicago< /td>