

EX.NO:6

PHP

DATE:18/02/2024

AIM:

To explore php and implement web pages using PHP.

1.Create a PHP script for designing a calculator application

CODE:

```
<?php

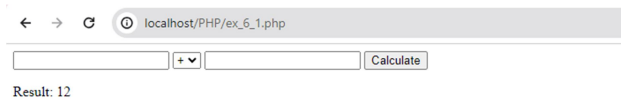
// Check if the form has been submitted
if (isset($_POST['submit'])) {
    // Get the values from the form
    $num1 = $_POST['num1'];
    $num2 = $_POST['num2'];
    $operator = $_POST['operator'];

    // Check which operator was chosen and perform the corresponding
    calculation
    if ($operator == 'add') {
        $result = $num1 + $num2;
    } elseif ($operator == 'subtract') {
        $result = $num1 - $num2;
    } elseif ($operator == 'multiply') {
        $result = $num1 * $num2;
    } elseif ($operator == 'divide') {
        $result = $num1 / $num2;
    }
} ?>

<form action="ex_6_1.php" method="post">
    <input type="text" name="num1">
    <select name="operator">
        <option value="add">+</option>
        <option value="subtract">-</option>
        <option value="multiply">*</option>
        <option value="divide">/</option>
    </select>
    <input type="text" name="num2">
    <input type="submit" name="submit" value="Calculate">
</form>

<?php // If the form has been submitted, display the result
if (isset($result)) {
    echo "Result: $result";
}
?>
```

OUTPUT:



2.Create a PHP script with function, using include()

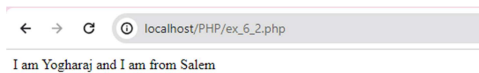
CODE:

```
<?php include 'C:\\xampp\\htdocs\\test_php\\ex_6_2_in.php';  
echo "I am $x and I am from $y";  
?>
```

CODE: (include)

```
<?php  
$x='Yogharaj';  
$y='Salem';  
?>
```

OUTPUT:




3.Create a web page using PHP, validate all the fields

CODE:

```
<?php  
if(isset($_GET['submit']))  
{  
    $x=$_GET['Name'];  
    $y=$_GET['Age'];  
    if(strlen($x)==0 or strlen($y)==0)  
    {  
        echo "All fields are required";  
    }  
}  
?>  
<form action="ex_6_3.php" method="get">  
    <input type="text" name="Name">  
    <input type="text" name="Age">
```

```
<input type="submit" name="submit" value="Calculate">
</form>
```

OUTPUT:



A screenshot of a web browser window. The address bar shows 'localhost/PHP/ex_6_3.php?Name=gacnsdad&Age=asfafs&submit=Calculate'. Below the address bar, there is a form with two input fields: 'Name: Yogharaj' and 'Age: 19'. At the bottom of the form is a button labeled 'SUBMIT'.

4.Demonstrate superglobals

CODE:

```
<?php
if(isset($_GET['name'])) {
    $name = $_GET['name'];
    echo "Hello, $name! <br>";
}
echo "The filename of the currently executing script: " .
$_SERVER['PHP_SELF'] . "<br>";
echo "The IP address of the client: " . $_SERVER['REMOTE_ADDR'] . "<br>";
?>
```

OUTPUT:



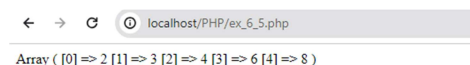
A screenshot of a web browser window. The address bar shows 'localhost/PHP/ex_6_4.php'. The page content displays two lines of text: 'The filename of the currently executing script: /PHP/ex_6_4.php' and 'The IP address of the client: ::1'.

5.Sort arrays

CODE:

```
<?php
$numbers = array(4, 2, 8, 6, 3);
sort($numbers);
print_r($numbers);
?>
```

OUTPUT:



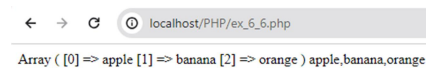
A screenshot of a web browser window. The address bar shows 'localhost/PHP/ex_6_5.php'. The page content displays the output of the print_r function: 'Array ([0] => 2 [1] => 3 [2] => 4 [3] => 6 [4] => 8)'.

6.Demonstrate explode and implode

CODE:

```
<?php
$string = "apple,banana,orange";
$array = explode(",", $string);
print_r($array);
$array = array("apple", "banana", "orange");
$string = implode(",", $array);
echo $string;
?>
```

OUTPUT:



localhost/PHP/ex_6_6.php

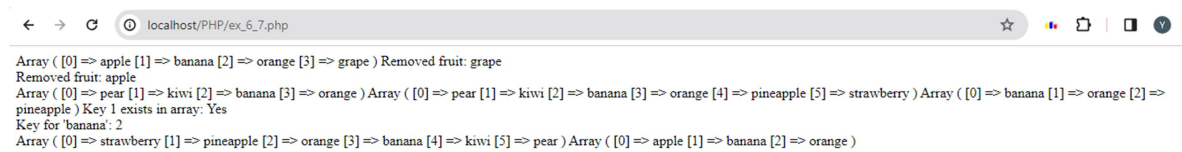
Array ([0] => apple [1] => banana [2] => orange) apple,banana,orange

7.Demonstrate 10 array functions

CODE:

```
<?php
$fruits = array("apple", "banana");
array_push($fruits, "orange", "grape");
print_r($fruits);
$lastFruit = array_pop($fruits);
echo "Removed fruit: $lastFruit <br>";
$firstFruit = array_shift($fruits);
echo "Removed fruit: $firstFruit <br>";
array_unshift($fruits, "pear", "kiwi");
print_r($fruits);
$moreFruits = array("pineapple", "strawberry");
$allFruits = array_merge($fruits, $moreFruits);
print_r($allFruits);
$slicedFruits = array_slice($allFruits, 2, 3);
print_r($slicedFruits);
$keyExists = array_key_exists(1, $allFruits);
echo "Key 1 exists in array: " . ($keyExists ? 'Yes' : 'No') . "<br>";
$key = array_search("banana", $allFruits);
echo "Key for 'banana': $key <br>";
$reversedFruits = array_reverse($allFruits);
print_r($reversedFruits);
$duplicateFruits = array("apple", "banana", "orange", "banana", "apple");
$uniqueFruits = array_unique($duplicateFruits);
print_r($uniqueFruits);
?>
```

OUTPUT:



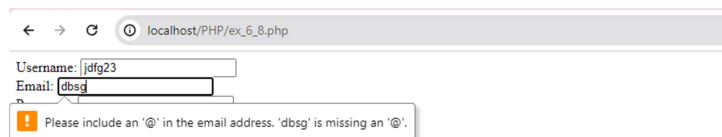
A screenshot of a web browser window displaying the output of a PHP script. The browser's address bar shows 'localhost/PHP/ex_6_7.php'. The output consists of several lines of PHP array representations and associative arrays, such as 'Array ([0] => apple [1] => banana [2] => orange [3] => grape)', 'Removed fruit: apple', and 'Array ([0] => pear [1] => kiwi [2] => banana [3] => orange [4] => pineapple [5] => strawberry)'. It also includes a key-value pair: 'Key for 'banana': 2'.

8.Create a php form and demonstrate the use of regular expressions, use required fields CODE:

```
<form method="post" action="">
    Username: <input type="text" name="username" required><br>
    Email: <input type="email" name="email" required><br>
    Password: <input type="password" name="password" required><br>
    <input type="submit" name="submit" value="Submit">
</form>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $username = $_POST['username'];
    $email = $_POST['email'];
    $password = $_POST['password'];
    $username_pattern = "/^[a-zA-Z0-9]+$/" ;
    $email_pattern = "/^\S+@\S+\.\S+$/" ;
    if (!preg_match($username_pattern, $username)) {
        echo "Invalid username. Username can only contain letters and
numbers.";
    } elseif (!preg_match($email_pattern, $email)) {
        echo "Invalid email address.";
    } else {
        echo "Form submitted successfully!";
    }
}
?>
```

OUTPUT:



A screenshot of a web browser window showing a form with two input fields: 'Username' and 'Email'. The 'Username' field contains 'jdfg23'. The 'Email' field contains 'dbsg'. Below the 'Email' field, there is a red error message that reads: 'Please include an '@' in the email address. 'dbsg' is missing an '@'.'

RESULT:

Thus PHP has been explored successfully and web pages were created.