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Kelas / No   : 2KS1 / 25

MODUL 8 PEMROGRAMAN BERBASIS WEB
KONSEP DASAR PHP

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1. **php08A.php** (https://github.com/afrzl/Pemrograman-Berbasis-Web/blob/8df816d836937af792ff0cab441275f4aaff7939/P8/php08A.php)

```html
<!DOCTYPE html>
<html lang='en-GB'>

<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta name="author" content="Muh. Nur Afrizal">
    <title>Hello World</title>
</head>

<body>
    <h1>Our first PHP script</h1>
    <?php
    $user = 'Muh. Nur Afrizal';
    print "<p><b>Hello $user<br>\nHello World!</b></p>\n"; ?>
</body>

</html>
```

Output:

Our first PHP script

Hello Muh. Nur Afrizal
Hello World!

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2. **php08B.php** (https://github.com/afrzl/Pemrograman-Berbasis-Web/blob/8df816d836937af792ff0cab441275f4aaff7939/P8/php08B.php)

```php
<!DOCTYPE html>
<html lang='en-GB'>

<head>
    <title>PHP 08B</title>
</head>

<body>
    <h1>Hello World</h1>
    <?php
    error_reporting(E_ALL);
    ini_set('display_errors', 1);
    ini_set('display_startup_errors', 1);
    echo "<h2>Types and Type Casting</h2>\n";
    $mode = rand(1, 4);
    if ($mode == 1) {
        $randvar = rand();
    } elseif ($mode == 2) {
        $randvar = (string) rand();
    } elseif ($mode == 3) {
        $randvar = rand() / (rand() + 1);
    } else {
        $randvar = (bool) $mode;
    }
    echo "Random scalar: $randvar<br>\n";

    //jawaban
    if (is_int($randvar)) {
        echo "This is an integer";
    } elseif (is_float($randvar)) {
        echo "This is a floating-point number";
    } elseif (is_string($randvar)) {
        echo "This is a string";
    } else {
        echo "I don't know what this is";
    }
    ?>
</body>

</html>
```
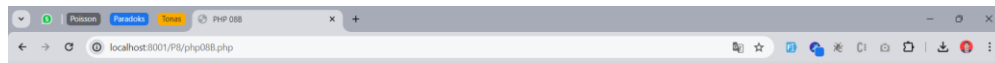
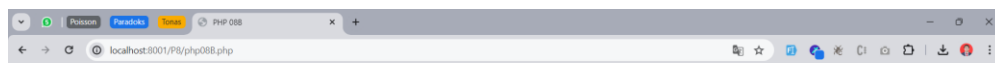Nama   : Muh. Nur Afrizal

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Output:

3. **php08C.php** (https://github.com/afrzl/Pemrograman-Berbasis-Web/blob/8df816d836937af792ff0cab441275f4aaff7939/P8/php08C.php)

```php
<!DOCTYPE html>
<html>

<head>
    <title>PHP 08C</title>
</head>

<body>
    <h1>Array Operators and Regular Expressions</h1>
    <?php
    echo "<h2>Exercise 2A</h2>\n";
    $planets = ['earth'];
    array_unshift($planets, 'mercury', 'venus');
    array_push($planets, 'mars', 'jupiter', 'saturn');
    echo "(1) \$planets = [", join(', ', $planets), "]<br>\n";
    $last = array_pop($planets);
    echo "(2) \$planets = [", join(', ', $planets), "]<br>\n";
    $first = array_shift($planets);
    echo "(3) \$planets = [", join(', ', $planets), "]<br>\n";
    echo "(4) \$first = $first, \$last = $last<br>\n";

    echo "<h2>Exercise 2B</h2>\n";
    $spheres = $planets;
    echo "(5) \$spheres = [", join(', ', $spheres), "]<br>\n";
    $planets[1] = 'midgard';
    echo "(6) \$planets = [", join(', ', $planets), "]<br>\n";
    echo "(6) \$spheres = [", join(', ', $spheres), "]<br>\n";
    $spheres = &$planets;
    echo "(7) \$spheres = [", join(', ', $spheres), "]<br>\n";
    $planets[0] = 'friga';
    echo "(8) \$planets = [", join(', ', $planets), "]<br>\n";
    echo "(8) \$spheres = [", join(', ', $spheres), "]<br>\n";

    $arr = $planets;
    foreach ($arr as $key => $value) {
        echo 'Removed: ' . array_shift($arr) . ' Remaining: ' .
'[', join(', ', $arr), "]<br>\n";
    }

    echo "<h2>Exercise 2C</h2>\n";
    $names = ['Dave Shield', 'Mr Andy Roxburgh', 'Dr George
Christodoulou', 'Dr Ullrich Hustadt', 'Dr David Jackson'];
    foreach ($names as $name) {
        echo "(1) Name: $name<br>\n";
    }

    // Your own code here
    $names = str_replace(['Mr ', 'Dr '], '', $names);
    foreach ($names as $key => $name) {
```

```php
        $name = explode(" ", $name);
        $names[$key] = strtoupper($name[1]) . ', ' . $name[0];
    }

    foreach ($names as $name)
        echo "(2) Name: $name<br>\n"
    ?>
</body>

</html>
```

Output:

Array Operators and Regular Expressions

Exercise 2A

(1) $planets = [mercury, venus, earth, mars, jupiter, saturn]
(2) $planets = [mercury, venus, earth, mars, jupiter]
(3) $planets = [venus, earth, mars, jupiter]
(4) $first = mercury, $last = saturn

Exercise 2B

(5) $spheres = [venus, earth, mars, jupiter]
(6) $planets = [venus, midgard, mars, jupiter]
(6) $spheres = [venus, earth, mars, jupiter]
(7) $spheres = [venus, midgard, mars, jupiter]
(8) $planets = [friga, midgard, mars, jupiter]
(8) $spheres = [friga, midgard, mars, jupiter]
Removed: friga Remaining: [midgard, mars, jupiter]
Removed: midgard Remaining: [mars, jupiter]
Removed: mars Remaining: [jupiter]
Removed: jupiter Remaining: []

Exercise 2C

(1) Name: Dave Shield
(1) Name: Mr Andy Roxburgh
(1) Name: Dr George Christodoulou
(1) Name: Dr Ullrich Hustadt
(1) Name: Dr David Jackson
(2) Name: SHIELD, Dave
(2) Name: ROXBURGH, Andy
(2) Name: CHRISTODOULOU, George
(2) Name: HUSTADT, Ullrich
(2) Name: JACKSON, David

4. **php08D.php** (https://github.com/afrzl/Pemrograman-Berbasis-Web/blob/8df816d836937af792ff0cab441275f4aaff7939/P8/php08D.php)

```php
<!DOCTYPE html>
<html>

<head>
    <title>PHP 08D</title>
    <style>
        table, th, td {
            border: 1px solid black;
            border-collapse: collapse;
        }
    </style>
</head>

<body>
    <h1>Associative Arrays</h1>
    <?php
        $dict1 = array('a' => 1, 'b' => 2);
        $dict2 = $dict1;
        $dict1['b'] = 4;
        echo "\$dict1['b'] = ", $dict1['b'],"<br>\n";
        echo "\$dict2['b'] = ", $dict2['b'],"<br>\n";
        //4b
        foreach ($dict1 as $key => $value) {
            echo "\$dict1['". $key ."'] = ", $value,"<br>\n";
        }

        $text = 'lorem ipsum elit congue auctor inceptos taciti
suscipit tortor auctor integer congue hac nullam hac auctor
tellus nullam inceptos nullam integer tellus nullam auctor elit
lorem ipsum elit';
        $word = str_word_count($text, 1);
        $dict3 = array_count_values($word);

        krsort($dict3);
        arsort($dict3);
        foreach ($dict3 as $word => $count) {
            echo "$word -> $count <br>\n";
        }
    ?>

    <table>
        <thead>
            <tr>
                <th style="width: 20%">Kata</th>
                <th style="width: 50%">Jumlah Kemunculan</th>
            </tr>
        </thead>
        <tbody>
            <?php foreach($dict3 as $word => $count) { ?>
```

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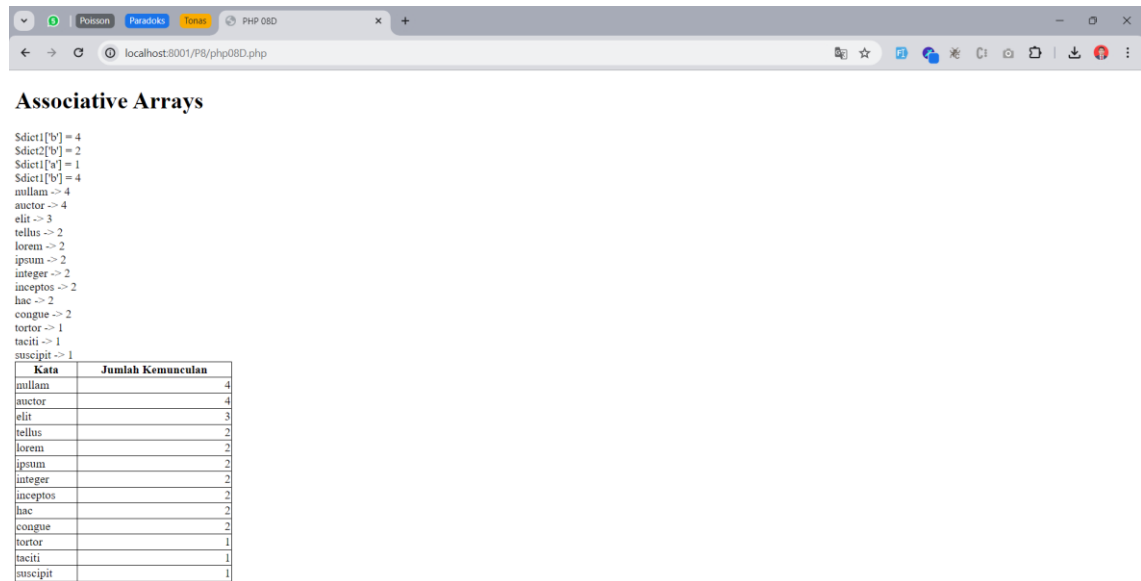Kelas / No : 2KS1 / 25

```
                <tr>
                    <td><?= $word ?></td>
                    <td style="text-align: right"><?= $count
?></td>
                </tr>
            <?php } ?>
        </tbody>
    </table>
</body>

</html>
```

Output:

Associative Arrays

$dict1['b'] = 4
$dict2['b'] = 2
$dict1['a'] = 1
$dict1['b'] = 4
nullam -> 4
auctor -> 4
elit -> 3
tellus -> 2
lorem -> 2
ipsum -> 2
integer -> 2
inceptos -> 2
hac -> 2
congue -> 2
tortor -> 1
taciti -> 1
suscipit -> 1

Kata	Jumlah Kemunculan
nullam	4
auctor	4
elit	3
tellus	2
lorem	2
ipsum	2
integer	2
inceptos	2
hac	2
congue	2
tortor	1
taciti	1
suscipit	1

5. **php08E.php** (https://github.com/afrzl/Pemrograman-Berbasis-Web/blob/8df816d836937af792ff0cab441275f4aaff7939/P8/php08E.php)

```php
<!DOCTYPE html>
<html lang='en-GB'>

<head>
    <title>PHP 08E</title>
    <META name="description" content="php08E.php">
</head>

<body>
    <h1>Variable-length Argument Lists</h1>
    <?php
        function reduceOp(...$op) {
        $last_index = array_key_last($op);
        $operator = $op[$last_index];
        if (!isset($operator["op"])) {
            throw new Exception("TypeError");
        }
        $output = NULL;
        foreach ($op as $key => $value) {
            if ($key != $last_index) {
                if (!is_numeric($value)) {
                    throw new Exception("ValueError");
                }
                if ($key == 0) {
                    $output = $value;
                    continue;
                }
                switch ($operator["op"]) {
                    case '+':
                        $output += $value;
                        break;

                    case '-':
                        $output -= $value;
                        break;

                    case '*':
                        $output *= $value;
                        break;

                    default:
                        throw new Exception("ValueError");
                        break;
                }
            }
        }

        return $output ? $output : "NULL";
    }
```

```php
        try {
            echo "1: ", reduceOp(2,3), "<br>\n";  # throws an
exception
        }
        catch (Exception $e) {
            echo "1: Exception ",$e->getMessage(),"<br>\n";  #
'TypeError'
        }
        try {
            echo "2: ",reduceOp(2,3,array('op' => '/')),  #
throws an exception
                "<br>\n";
        }
        catch (Exception $e) {
            echo "2: Exception ",$e->getMessage(),"<br>\n";  #
'ValueError'
        }
        echo "3: ",reduceOp(array('op'=>'+')),  # should return
NULL
            "<br>\n";
        echo "4: ",reduceOp(2,array('op' => '*')),  # should
return 2
            "<br>\n";
        echo "5: ",reduceOp(2,3,5,array('op' => '+')),  # should
return 10
            "<br>\n";
        echo "6: ",reduceOp(2,3,5,7,array('op' => '*')),  #
should return  210
            "<br>\n";
        echo "7: ",reduceOp(2,3,5,7,11,array('op' => '-')),#
should return - 24
            "<br>\n";
    ?>
</body>

</html>
```

Output: