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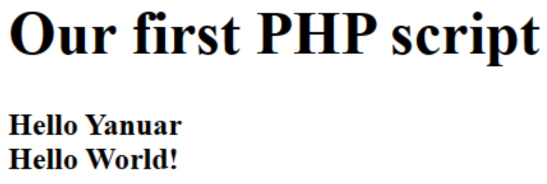
Kelas : 2KS4

Penugasan Praktikum Pemrograman Berbasis Web Pertemuan 8

1. Source code php08A

```
<!DOCTYPE html> <html lang='en-GB'>
<head>
<title>Hello World</title>
</head>
<body>
    <h1>Our first PHP script</h1>
    <?php
    $user = "Yanuar";
    print ("<p><b>Hello $user<br>\nHello World!</b></p>\n"); ?>
</body>
</html>
```

Output:



Our first PHP script

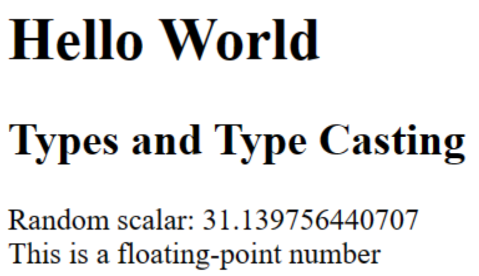
Hello Yanuar
Hello World!

2. Source code php08B

```
<!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";

    gettype($randvar);
    if (is_int($randvar) == true)
     echo "This is an Integer";
    elseif (is_string($randvar) == true)
     echo "This is a String";
    elseif (is_float($randvar) == true)
     echo "This is a floating-point number";
    else
     echo "I don't know what it is";
    ?>


</body>
</html>
```

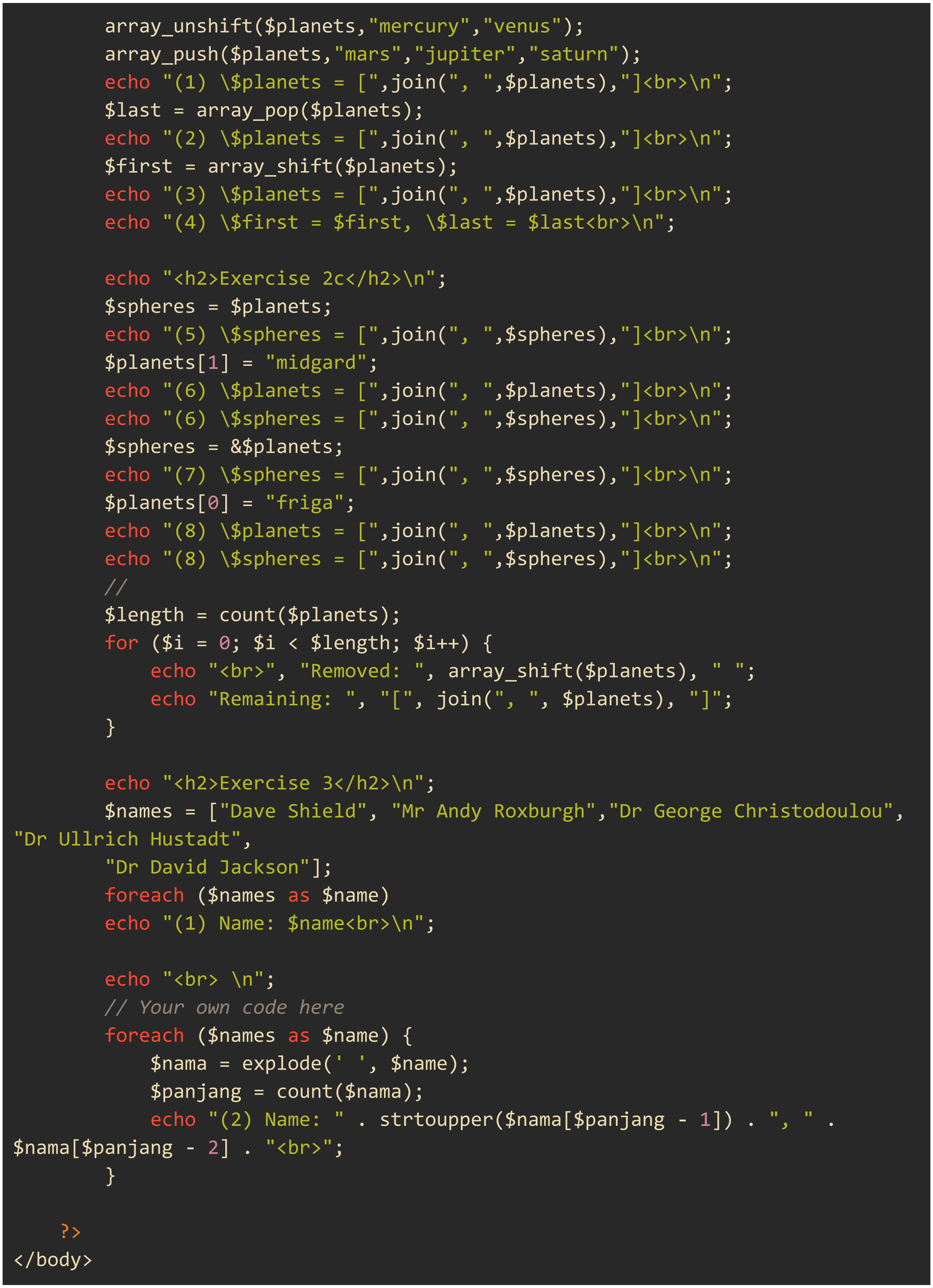
Output::



```
Hello World

Types and Type Casting

Random scalar: 31.139756440707
This is a floating-point number
```

3. Source code php08C

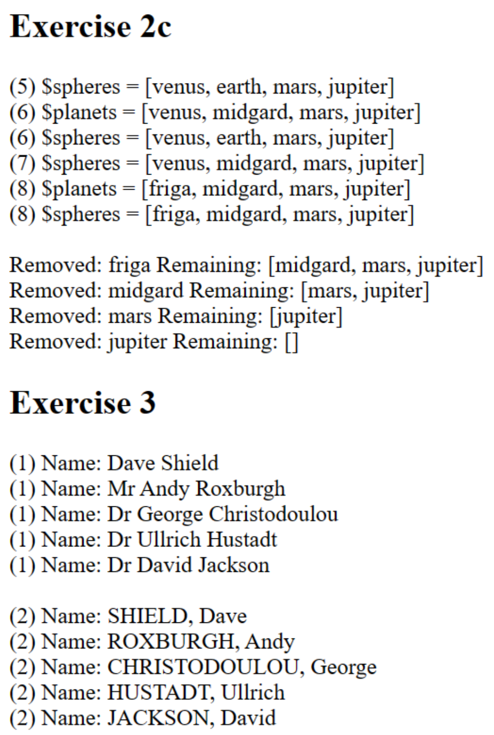
```
<!DOCTYPE html>
<html>
<head>
<title>PHP 08C</title>
</head>
<body>
    <h1>Array Operators and Regular Expressions</h1>
    <?php
        echo "<h2>Exercise 2a</h2>\n";
        $planets = array("earth");
```



```
        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 2c</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";
        //
        $length = count($planets);
        for ($i = 0; $i < $length; $i++) {
            echo "<br>", "Removed: ", array_shift($planets), " ";
            echo "Remaining: ", "[", join(", ", $planets), "]";
        }

        echo "<h2>Exercise 3</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";

        echo "<br> \n";
        // Your own code here
        foreach ($names as $name) {
            $nama = explode(' ', $name);
            $panjang = count($nama);
            echo "(2) Name: " . strtoupper($nama[$panjang - 1]) . ", " .
$nama[$panjang - 2] . "<br>";
        }

    ?>
</body>
```

```
</html>
```

Output:



Exercise 2c

```
(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 3

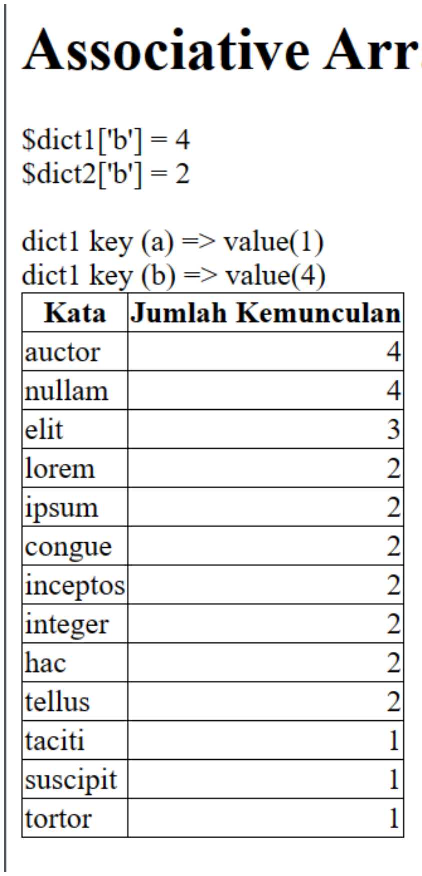
```
(1) Name: Dave Shield
(1) Name: Mr Andy Roxburgh
(1) Name: Dr George Christodoulou
(1) Name: Dr Ullrich Hustadt
(1) Name: Dr David Jackson

(2) Name: SHIELD, Dave
(2) Name: ROXBURGH, Andy
(2) Name: CHRISTODOULOU, George
(2) Name: HUSTADT, Ullrich
(2) Name: JACKSON, David
```

4. Source code php08D

```
<!DOCTYPE html>
<html>

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

        foreach ($dict1 as $key => $value) {
            echo "<br>dict1 key (", $key, ") => value(", $value, ")";
        }

        $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';

        $dict3 = array();
        $array_text = explode(" ", $text);
        foreach ($array_text as $kata) {
            if (!array_key_exists($kata, $dict3))
                $dict3[$kata] = 0;
            $dict3[$kata]++;
        }

        arsort($dict3);
        echo "<table>\n";
        echo "<tr>\n<th>Kata</th>\n<th>Jumlah Kemunculan</th>\n</tr>";
        foreach ($dict3 as $key => $value) {
            echo "<tr>\n"
                , "<td>", $key, "</td>\n"
                , "<td class='kanan'>", $value, "</td>\n"
                , "</tr>\n";
        }

        echo "</table>";

    ?>


</body>

</html>
```

Output:



Associative Arrays

$dict1['b'] = 4
$dict2['b'] = 2

dict1 key (a) => value(1)
dict1 key (b) => value(4)

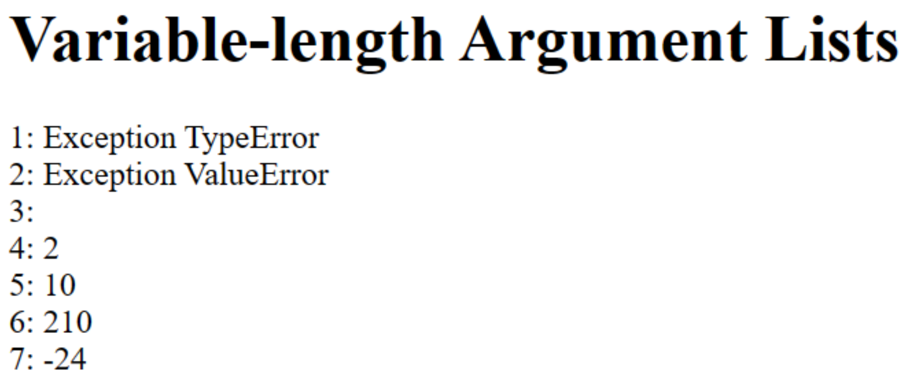
Kata	Jumlah Kemunculan
auctor	4
nullam	4
elit	3
lorem	2
ipsum	2
congue	2
inceptos	2
integer	2
hac	2
tellus	2
taciti	1
suscipit	1
tortor	1

5. Source code 08E

```
<!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(...$args) {
            $op_arg = end($args);
            if (!is_array($op_arg)) {
                throw new Exception("TypeError");
            }
            $op = $op_arg['op'] ?? null;
            if ($op === null || !in_array($op, ['+', '-', '*'])) {
                throw new Exception("ValueError");
            }
            array_pop($args);
            if (count($args) === 0) {
                return NULL;
            }

            $result = array_shift($args);
            foreach ($args as $arg) {
                switch ($op) {
                    case '+':
                        $result += $arg;
                        break;
                    case '-':
                        $result -= $arg;
                        break;
                    case '*':
                        $result *= $arg;
                        break;
                }
            }
            return $result;
        }

        try {
            echo "1: ", reduceOp(2, 3), "<br>\n"; # throws an exception
        } catch (Exception $e) {
            echo "Exception ", $e->getMessage(), "<br>\n"; # 'TypeError'
        }
        try {
            echo "2: ", reduceOp(2, 3, array('op' => '/')), # throws an
exception
                "<br>\n";
        } catch (Exception $e) {
            echo "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:



Variable-length Argument Lists

1: Exception TypeError
2: Exception ValueError
3:
4: 2
5: 10
6: 210
7: -24