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Kelas : 2KS4

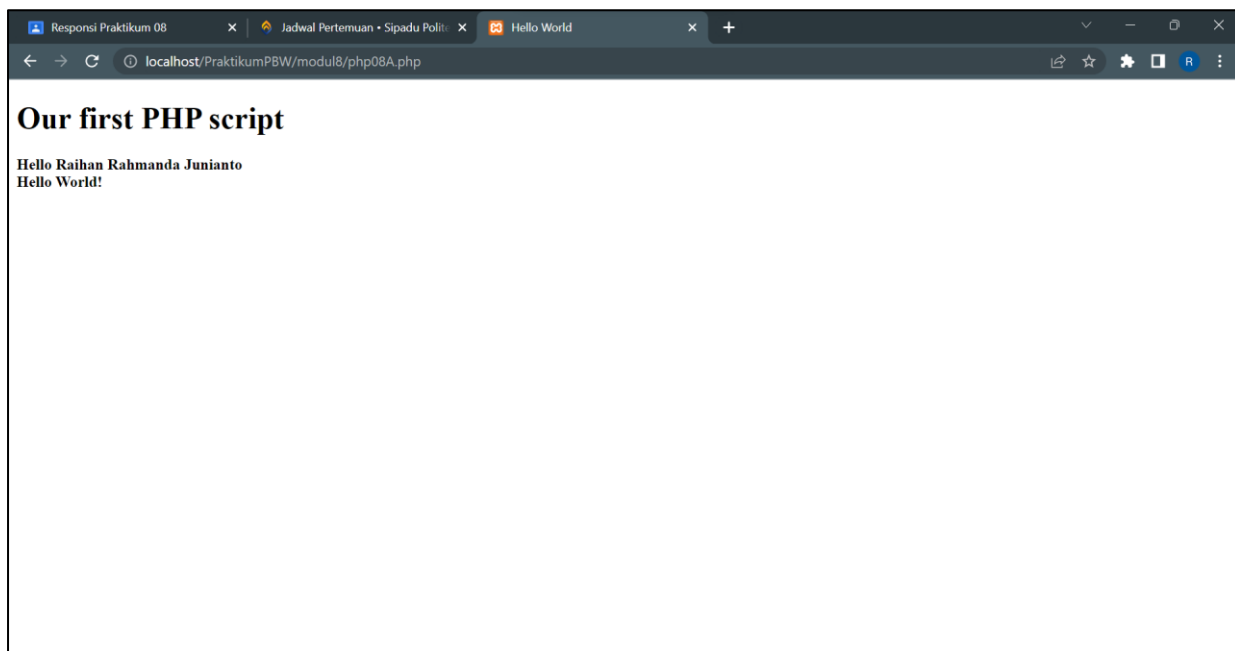
Responsi Praktikum Pemrograman Berbasis Web Pertemuan 8

1. Mari kita lakukan uji coba dengan membuat "Hello World!" dengan PHP.

Source code:

```
1 <!DOCTYPE html>
2 <html lang='en-GB'>
3 <head>
4     <title>Hello World</title>
5 </head>
6 <body>
7     <h1>Our first PHP script</h1>
8     <?php
9         $user = "Raihan Rahmanda Junianto";
10        print("<p><b>Hello $user<br>\nHello World!</b></p>\n"); ?>
11 </body>
12 </html>
```

Output:

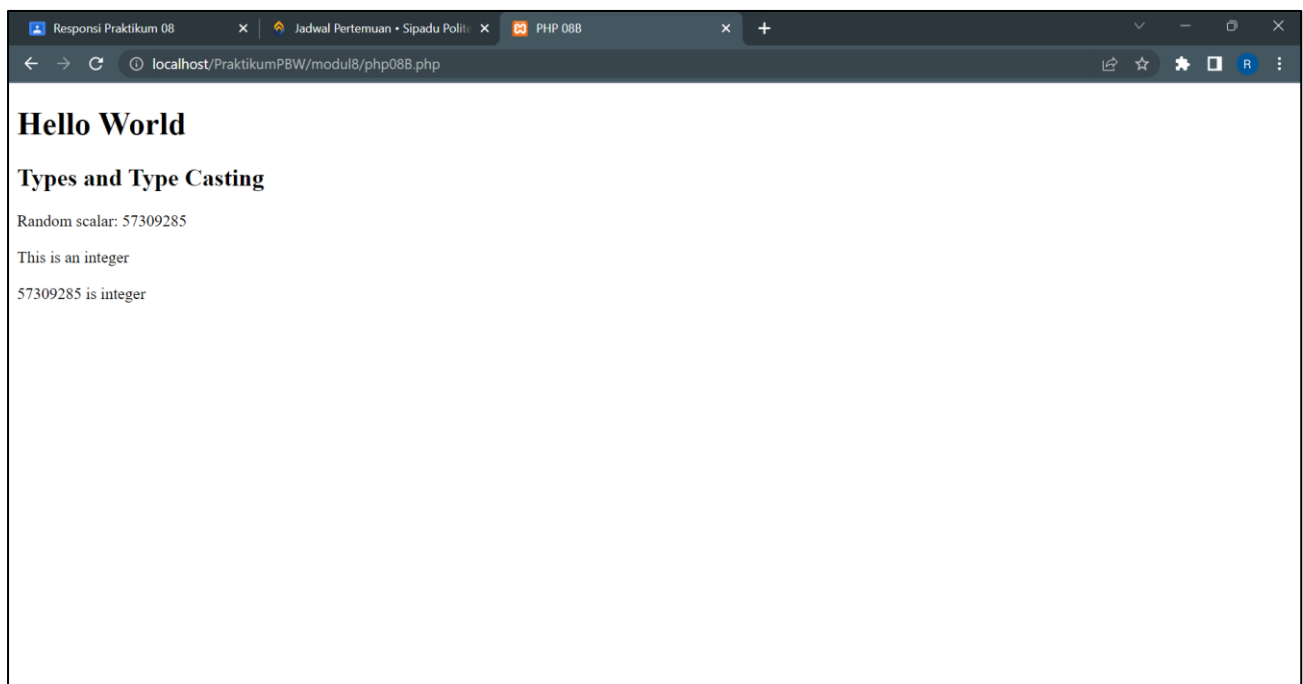
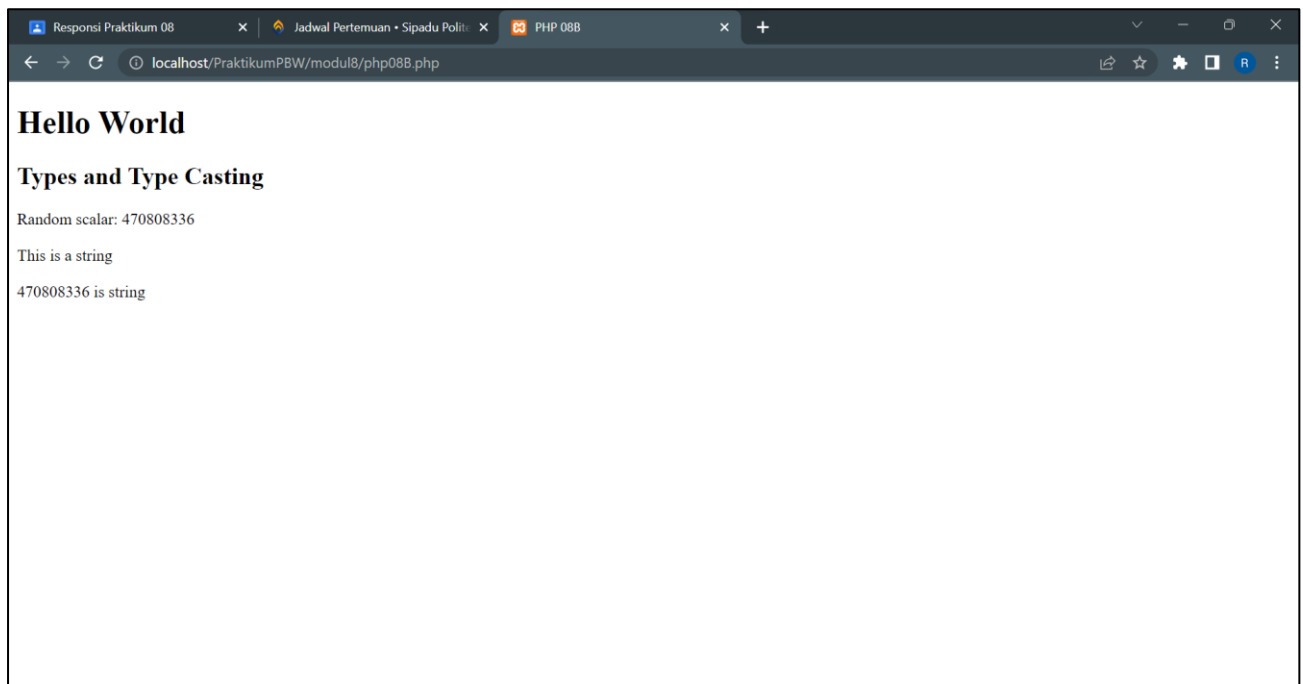


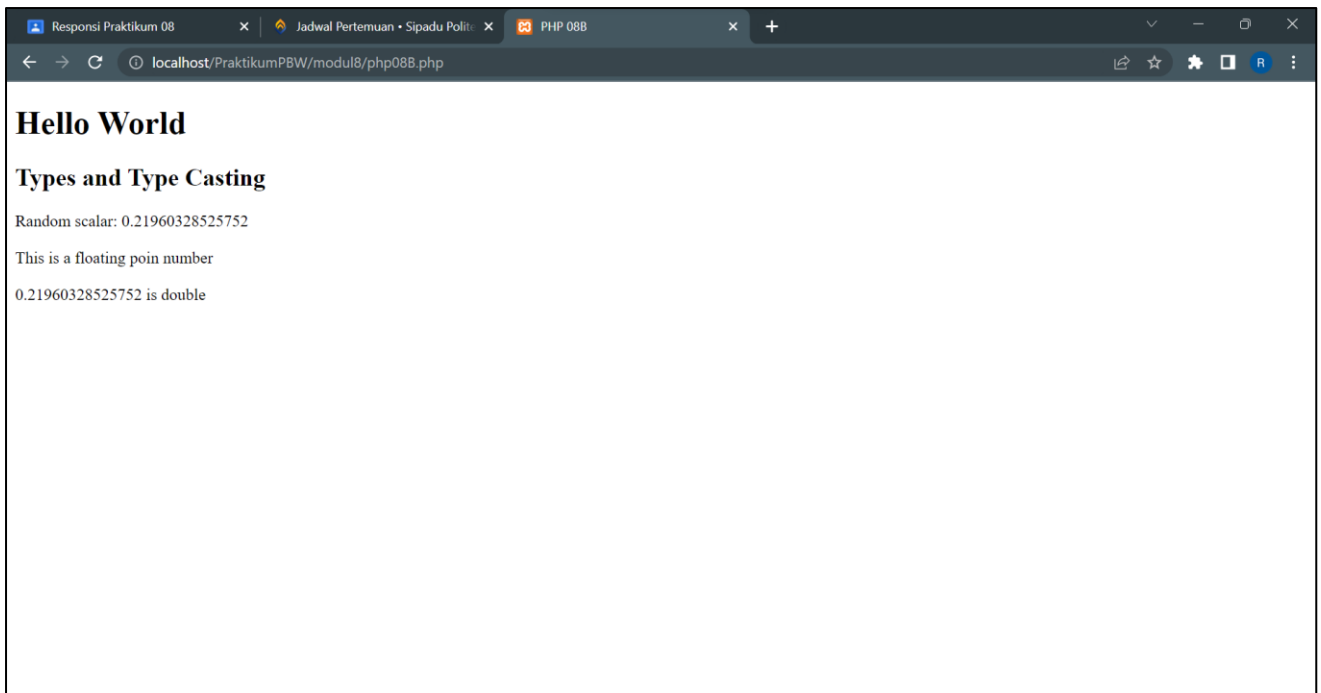
2. Latihan berikut tentang tipe, type casting (konversi tipe) dan identifikasi tipe dalam PHP.

Source code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>PHP 08B</title>
8 </head>
9 <body>
10 <h1>Hello World</h1>
11     <?php
12         error_reporting( E_ALL );
13         ini_set('display_errors', 1);
14         ini_set('display_startup_errors', 1);
15         echo "<h2>Types and Type Casting</h2>\n";
16         $mode = rand(1,4);
17         if ($mode == 1)
18             $randvar = rand();
19         elseif ($mode == 2)
20             $randvar = (string) rand();
21         elseif ($mode == 3)
22             $randvar = rand()/(rand()+1);
23         else
24             $randvar = (bool) $mode;
25         echo "Random scalar: $randvar<br>\n";
26         if (is_int($randvar)){
27             echo "<br>This is an integer<br>\n";
28         } elseif (is_float($randvar)){
29             echo "<br>This is a floating point number<br>\n";
30         } elseif (is_string($randvar)){
31             echo "<br>This is a string<br>\n";
32         } else {
33             echo "<br>I don't know what this is<br>\n";
34         }
35         echo "<br>$randvar is ", gettype($randvar), "<br>\n";
36     ?>
37 </body>
38 </html>
```

Output:





3. Latihan berikut tentang array dan operator dalam array dalam PHP.

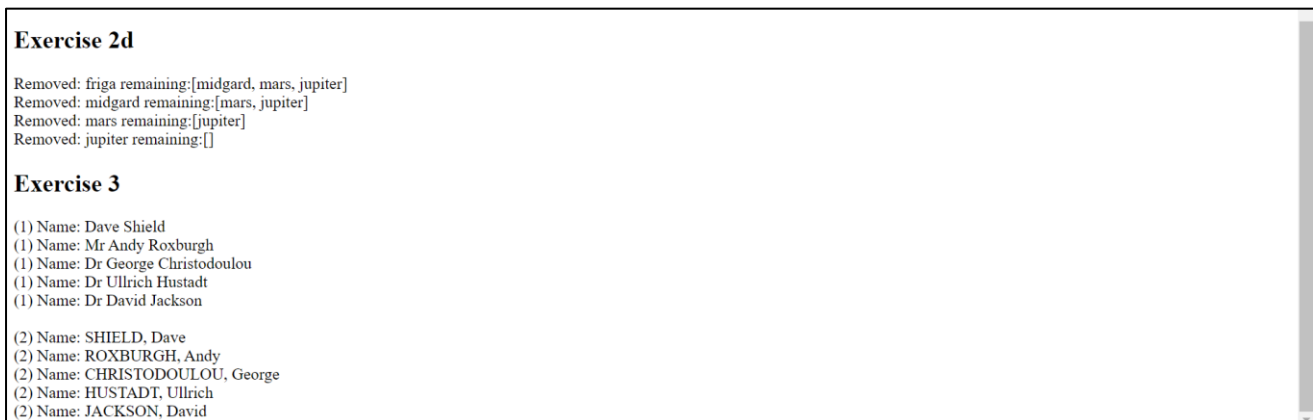
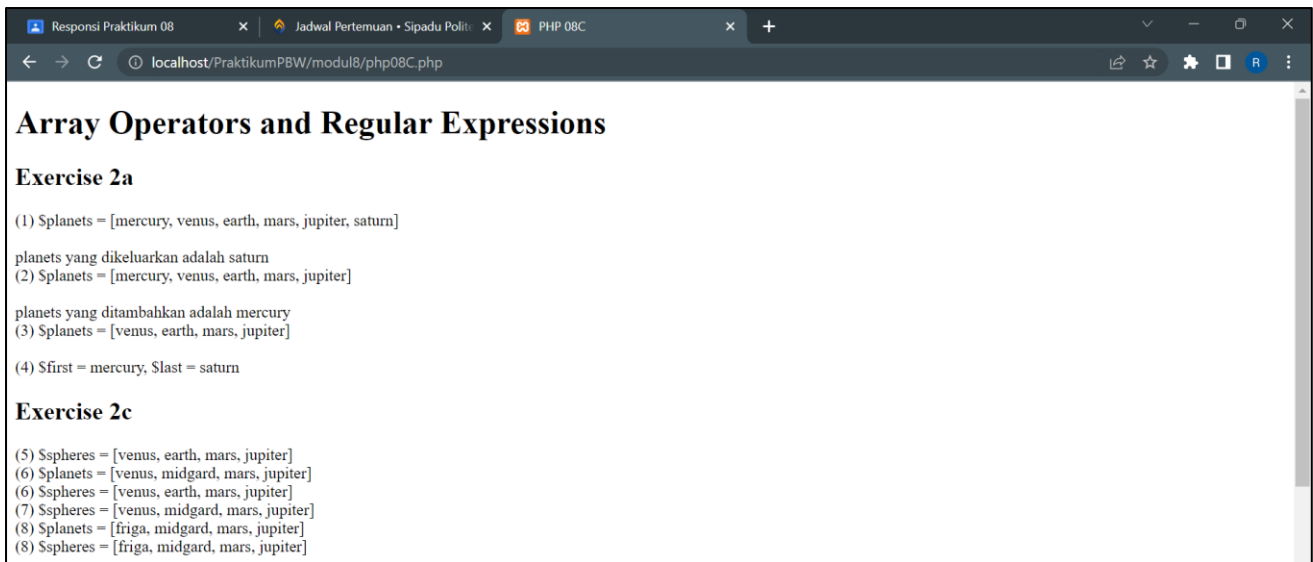
Source code:

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>PHP 08C</title>
5 </head>
6 <body>
7 <h1>Array Operators and Regular Expressions</h1>
8 <?php
9     echo "<h2>Exercise 2a</h2>\n";
10    $planets = array("earth");
11    array_unshift($planets,"mercury","venus");
12    array_push($planets,"mars","jupiter","saturn");
13    echo "(1) \$planets = [" ,join(" ", $planets),"]<br><br>\n";
14    $last = array_pop($planets);
15    echo "planets yang dikeluarkan adalah $last\n<br>";
16    echo "(2) \$planets = [" ,join(" ", $planets),"]<br><br>\n";
17    $first = array_shift($planets);
18    echo "planets yang ditambahkan adalah $first\n<br>";
19    echo "(3) \$planets = [" ,join(" ", $planets),"]<br><br>\n";
20    echo "(4) \$first = $first, \$last = $last<br>\n";
21
22    echo "<h2>Exercise 2c</h2>\n";
23    $spheres = $planets;
24    echo "(5) \$spheres = [" ,join(" ", $spheres),"]<br>\n";
25    $planets[1] = "midgard";
26    echo "(6) \$planets = [" ,join(" ", $planets),"]<br>\n";
27    echo "(6) \$spheres = [" ,join(" ", $spheres),"]<br>\n";
28    $spheres = &$planets;
29    echo "(7) \$spheres = [" ,join(" ", $spheres),"]<br>\n";
30    $planets[0] = "friga";
31    echo "(8) \$planets = [" ,join(" ", $planets),"]<br>\n";
32    echo "(8) \$spheres = [" ,join(" ", $spheres),"]<br><br>\n";
33
34    echo "<h2>Exercise 2d</h2>\n";
35    echo "Removed: ",array_shift($planets)," remaining: " ,[" ,join(" ", $planets),"]<br>\n";
36    echo "Removed: ",array_shift($planets)," remaining: " ,[" ,join(" ", $planets),"]<br>\n";
37    echo "Removed: ",array_shift($planets)," remaining: " ,[" ,join(" ", $planets),"]<br>\n";
38    echo "Removed: ",array_shift($planets)," remaining: " ,[" ,join(" ", $planets),"]<br>\n";
39
40    echo "<h2>Exercise 3</h2>\n";
41    $names = ["Dave Shield", "Mr Andy Roxburgh","Dr George Christodoulou", "Dr Ullrich Hustadt", "Dr David Jackson"];
42
43    foreach ($names as $name)
44        echo "(1) Name: $name<br>\n";
45
46    echo "<br>\n";
47    $pattern = '/([a-zA-Z])\s([a-zA-Z]+)/';
48    $names = preg_replace('/^(dr|mr|mrs)\s/i', ' ', $names);
49    $names = preg_replace_callback($pattern, 'callback', $names);
50
51    function callback($matches){
52        return strtoupper($matches[2]).", ".$matches[1];
53    }
54
55    foreach ($names as $name)
56        echo "(2) Name: $name<br>\n";
57
58    ?>
59 </body>
60 </html>

```

Output:



4. Dalam PHP, tidak ada perbedaan antara array (number-indexed array) dengan hash-indexed array atau dictionary. Dalam PHP hanya ada associative array atau sama dengan hash-indexed array.

Source code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>PHP 08D</title>
5 </head>
6 <body>
7 <h1>Associative Arrays</h1>
8 <?php
9     $dict1 = array('a' => 1, 'b' => 2);
10    $dict2 = $dict1;
11    $dict1['b'] = 4;
12    echo "\$dict1['b'] = ", $dict1['b'], "<br>\n";
13    echo "\$dict2['b'] = ", $dict2['b'], "<br>\n";
14
15    echo "\$dict1['a'] = ", $dict1['a'], "<br>\n";
16    echo "\$dict1['b'] = ", $dict1['b'], "<br>\n";
17    foreach($dict1 as $x => $val) {
18        echo "$x = $val<br>";
19    }
20
21    $string = "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";
22    $dict = array();
23    $words = explode(" ", $string);
24
25    foreach ($words as $word) {
26        if (array_key_exists($word, $dict)) {
27            $dict[$word]++;
28        } else {
29            $dict[$word] = 1;
30        }
31    }
32
33    foreach ($dict as $word => $count) {
34        echo $word . " -> " . $count . "<br>";
35    }
36
37    echo "<br>";
38    krsort($dict);
39    arsort($dict);
40    echo "<table>\n";
41    echo "<tr><th>Kata</th><th>Jumlah Kemunculan</th></tr>";
42    foreach ($dict as $word => $count) {
43        echo "<tr><td class='left'>$word</td><td class='right' align='right'>$count</td></tr>";
44    }
45    echo "</table>";
46 </body>
47 </html>
```

Output:

Responsi Praktikum 08 x Jadwal Pertemuan • Sipadu Politi x PHP 08D

localhost/PraktikumPBW/modul8/php08D.php

Associative Arrays

```
Sdict1['b'] = 4
Sdict2['b'] = 2
Sdict1['a'] = 1
Sdict1['b'] = 4
a = 1
b = 4
lorem -> 2
ipsum -> 2
elit -> 3
congue -> 2
auctor -> 4
inceptos -> 2
taciti -> 1
suscipit -> 1
tortor -> 1
integer -> 2
hac -> 2
nullam -> 4
tellus -> 2
```

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. Pada latihan ini, kita akan melihat argumen/parameter dinamis dalam fungsi.

Source code:

```

1  <!DOCTYPE html>
2  <html lang='en-GB'>
3  <head>
4      <title>PHP 08E</title>
5      <META name="description" content="php08E.php">
6  </head>
7  <body>
8      <h1>Variable-length Argument Lists</h1>
9      <?php
10         function reduceOp(){
11             $symbols = array('+','-','*');
12             $arguments = func_get_args();
13             $lastArgument = array_pop($arguments);
14             if (!is_array($lastArgument)){
15                 throw new Exception ("TypeError");
16             };
17             $symbol = $lastArgument["op"];
18             if (!in_array($symbol,$symbols)){
19                 throw new Exception ("ValueError");
20             };
21             if (func_num_args()==1){
22                 return null;
23             };
24             $result = array_shift($arguments);
25             foreach ($arguments as $arg) {
26                 switch ($symbol) {
27                     case '+':
28                         $result += $arg;
29                         break;
30                     case '-':
31                         $result -= $arg;
32                         break;
33                     case '*':
34                         $result *= $arg;
35                         break;
36                 }
37             }
38             return $result;
39         }
40
41
42         try {
43             echo "1: ", reduceOp(2,3), "<br>\n"; # throws an exception
44         } catch (Exception $e) {
45             echo "1: Exception ", $e->getMessage(), "<br>\n"; # 'TypeError'
46         }
47
48         try {
49             echo "2: ", reduceOp(2,3,array('op' => '/')), # throws an exception
50             "<br>\n";
51         } catch (Exception $e) {
52             echo "2: Exception ", $e->getMessage(), "<br>\n"; # 'ValueError'
53         }
54
55         echo "3: ", reduceOp(array('op'=>'+')), # should return NULL
56         "<br>\n";
57         echo "4: ", reduceOp(2,array('op' => '*')), # should return 2
58         "<br>\n";
59         echo "5: ", reduceOp(2,3,5,array('op' => '+')), # should return 10
60         "<br>\n";
61         echo "6: ", reduceOp(2,3,5,7,array('op' => '*')), # should return 210
62         "<br>\n";
63         echo "7: ", reduceOp(2,3,5,7,11,array('op' => '-')), # should return -24
64         "<br>\n";
65     ?>
66 </body>
67 </html>

```

Output:

