



Waterford Institute of Technology



PHP LAB 3

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PHP ARRAYS

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- PHP array is an ordered map (contains value on the basis of key).
- It is used to hold multiple values of similar type in a single variable.

Advantage of PHP Array

- **Less Code:** We don't need to define multiple variables.
- **Easy to traverse:** By the help of single loop, we can traverse all the elements of an array.
- **Sorting:** We can sort the elements of array.

PHP ARRAY TYPES

There are 3 types of array in PHP.

- Indexed Array
- Associative Array
- Multidimensional Array

PHP INDEXED ARRAY

- PHP index is represented by number which starts from 0.
- We can store number, string and object in the PHP array.
- All PHP array elements are assigned to an index number by default.

There are two ways to define indexed array:

1st way:

```
$season=array("summer","winter","spring","autumn");
```

2nd way:

```
$season[0]="summer";  
$season[1]="winter";  
$season[2]="spring";  
$season[3]="autumn";
```

```
<?php
```

```
$season=array("summer","winter","spring","autumn");
```

```
echo "Season are: $season[0], $season[1], $season[2] and $season[3]";
```

```
?>
```

```
<?php
```

```
$season[0]="summer";
```

```
$season[1]="winter";
```

```
$season[2]="spring";
```

```
$season[3]="autumn";
```

```
echo "Season are: $season[0], $season[1], $season[2] and $season[3]";
```

```
?>
```

```
<?php
$size=array("Big","Medium","Short");
foreach( $size as $s )
{
    echo "Size is: $s<br />";
}
?>
```

COUNT LENGTH OF PHP INDEXED ARRAY

- PHP provides count() function which returns length of an array.

```
<?php  
$size=array("Big","Medium","Short");  
echo count($size);  
?>
```


PHP ASSOCIATIVE ARRAY

- We can associate name with each array elements in PHP using => symbol.
- There are two ways to define associative array:

1st way:

```
$salary=array("Sonoo"=>"350000","John"=>"450000","Kartik"=>"200000");
```

2nd way:

```
$salary["Sonoo"]="350000";  
$salary["John"]="450000";  
$salary["Kartik"]="200000";
```

```
<?php
$salary=array("Sonoo"=>"350000","John"=>"450000","Kartik"=>"200000");
echo "Sonoo salary: ".$salary["Sonoo"]."<br/>";
echo "John salary: ".$salary["John"]."<br/>";
echo "Kartik salary: ".$salary["Kartik"]."<br/>";
?>
```

```
<?php
$salary["Sonoo"]="350000";
$salary["John"]="450000";
$salary["Kartik"]="200000";
echo "Sonoo salary: ".$salary["Sonoo"]."<br/>";
echo "John salary: ".$salary["John"]."<br/>";
echo "Kartik salary: ".$salary["Kartik"]."<br/>";
?>
```

```
<?php
```

```
$salary=array("Sonoo"=>"550000","Vimal"=>"250000","Ratan"=>"200000");
```

```
foreach($salary as $k => $v) {
```

```
echo "Key: ".$k." Value: ".$v."<br/>";
```

```
}
```

```
?>
```



PHP MULTIDIMENSIONAL ARRAY

PHP MULTIDIMENSIONAL ARRAY

- PHP multidimensional array is also known as array of arrays.
- It allows you to store tabular data in an array. PHP multidimensional array can be represented in the form of matrix which is represented by row * column.

```
$emp = array  
(  
    array(1,"sonoo",400000),  
    array(2,"john",500000),  
    array(3,"rahul",300000)  
);
```

```
<?php
$emp = array
(
    array(1,"sonoo",400000),
    array(2,"john",500000),
    array(3,"rahul",300000)
);

for ($row = 0; $row < 3; $row++) {
    for ($col = 0; $col < 3; $col++) {
        echo $emp[$row][$col]." ";
    }
    echo "<br/>";
}
?>
```