

## Array

◦ Array in PHP is a type of data structure that allows to store multiple elements of similar data type under a single variable.

◦ It is a special variable, which can hold more than one value at a time.

\* Creating an array

→ In PHP, the `array()` function is used to create an array.

`array()`

\* PHP Array Types

There are three types of array in PHP.

1. Indexed Array.
2. Associative "
3. Multidimensional Array.

① PHP Indexed Array :-

It is also known as "Arrays with a numeric index".

- \_ / \_ / \_
- indexed Arrays can be used to store any type of elements, but an index is always a number.
  - It is represented by number which starts from 0.
  - All PHP array elements are assigned to an index number by default.

### Example 1

```
<?php
$Jnotes = array("Java", "PHP", "Python", "dbms");
echo "Notes are : $Jnotes[0], $Jnotes[1],
$Jnotes[2] and $Jnotes[3];"
?>
```

Output:- Notes are : Java, PHP, Python and dbms.

### Example 2

```
<?php
$notes[0] = "C++";
$notes[1] = "web";
$notes[2] = "CSA";
echo "JNotes are : $notes[0], $notes[1], $notes[2];"
?>
```

Output:- Notes are :- C++, web, CSA.

## ② PHP Associative Array :-

- In this, we can associate name with each array elements in PHP using  $\Rightarrow$  symbol.
- every value can be assigned with a user-defined key of string type.

Ways to create an associative arrays -

Way (i) `$age = array ("nam" => "20", "sham" => "25", "Hari" => "30");`

Way (ii) `$age ["nam"] = "20";  
$age ["sham"] = "25";  
$age ["Hari"] = "30";`

### Example

```
<?php  
$age = array ("nam" => "20", "sham" => "25",  
             "Hari" => "30", "Mani" => "40");  
echo "Hari is " . $age ["Hari"] . " years old";  
?>
```

### Output

Hari is 30 years old.

### ③ PHP Multidimensional Array :-

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

#### Definition (Syntax)

```
$emp = array  
(  
    array (1, "Ram", 1500),  
    array (2, "Sham", 2000),  
    array (3, "John", 3000)  
);
```

#### Example

```
<?php  
$emp = array  
(  
    array (1, "ram", 1000),  
    array (2, "sham", 1500),  
    array (3, "John", 2000)  
);
```

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

Output

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- 1 ram 1000
- 2 Sham 1500
- 3 John 2000

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## \* Looping Array using foreach() Loop

The foreach() loop works only on arrays, and is used to loop through each key/value pair in an array.

### Syntax

```
foreach ($array as $value)
```

### Example

```
#!/php  
  
$notes = array ("Php", "Java", "python");  
foreach ($notes as $value)  
    echo "$value <br>";
```

### Output

```
php  
Java  
python
```