Array

An array is a special variable that can hold many values under a single name, and you can access the values by referring to an index number or name.

In PHP, there are three types of arrays:

- **Indexed arrays** - Arrays with a numeric index
- **Associative arrays** - Arrays with named keys
- **Multidimensional arrays** - Arrays containing one or more arrays

Declaration

```php
$cars = array("Volvo", "BMW", "Toyota");
```

Display

```php
$cars = array("Volvo", "BMW", "Toyota");

var_dump($cars);

echo $cars[0];

$cars[1] = "Ford";

$cars[] = "Maruti";

var_dump($cars);

foreach ($cars as $x) {

  echo "$x <br>";

}
array_push($cars, "Ford");

var_dump($cars);
```

Associative Arrays

```php
$car = array("brand"=>"Ford", "model"=>"Mustang", "year"=>1964);

var_dump($car);

echo $car["model"];
```

```php
$car["year"] = 2024;

$cars["color"] = "Red";

var_dump($car);

foreach ($car as $x => $y) {

  echo "$x: $y <br>";

}
```

MultiDimensional Array

```php
$arr = array(array(1,2,3),array(4,5,6),array(7,8,9));

for($i=0;$i<3;$i++){

    for($j=0;$j<3;$j++){

        echo $arr[$i][$j]." ";

    }

    echo "<br>";

}
```