ណែនាំអោយស្គាល់ពី Array ក្នុង PHP

1. ដូចម្ដេចទៅដែលហៅថា Array?

   Array គឺសំដៅលើប្រភេទ អញ្ញាតិមួយប្រភេទដែលអាចធ្វើ Store ទុកទិន្នន័យនៅលើ ខ្លួនវាបានច្រើនប្រភេទ និងច្រើនទិន្នន័យ។ ក្នុង PHP អ្នកអាចបង្កើតនូវ Array តាមទំរង់ដូចខាងក្រោម ៖

   ទំរង់ទី ១ ៖

```
<!DOCTYPE html>
<html>
<body>

<?php
$cars = array("Volvo", "BMW", "Toyota");
echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
?>

</body>
</html>
```

   ទំរង់ទី ២ ៖

```
$emptyArray = [];
Or
$emptyArray = array();
Or
$emptyArray = (array) null;
```

ទំរង់ទី ៣ ៖

```php
$first = [];
$first[0] = "ETEC";
$first[1] = "CENTER";
$first[2] = "I.T";
$first[3] = "Professional";
$first[4] = "Traing";
$first[5] = "CENTER";
```

ឧទាហរណ៍ ១ ៖

```php
<?php

/* method to create Empty array. */
$firstempty = [];
echo "Created First empty array <br>";

/* method to create Second Empty array. */
$second = array( );
echo "Created second empty array<br>";

/* First method to create array. */
$first = array("ETEC", "CENTER","I.T","Traning","Center");

foreach( $first as $value ) {
    echo "Value is $value <br>";
}
?>
```

ឧទាហរណ៍ ២ ៖

```php
< ?php
//Remove the spaces in PHP opening tag
$txtnames = $_POST['txtname'];

foreach( $txtnames as $n ) {
  print "The name is ".$n ."</BR>";
}
?>

<html>
<body>
<form action="" method="post">

<p><label>Enter Name 1</label><input type="text" name="txtname[]" /><br /></p>
<p><label>Enter Name 2</label><input type="text" name="txtname[]" /><br /></p>
<p><label>Enter Name 3</label><input type="text" name="txtname[]" /><br /></p>
<p><label>Enter Name 4</label><input type="text" name="txtname[]" /><br /></p>
<p><label>Enter Name 5</label><input type="text" name="txtname[]" /><br /></p>


<input type="submit" value="Submit and display name by Array"/>
</form>
</body>
</html>
```

លទ្ធផលទទួលបាន

Output

The name is ETE
The name is Center
The name is IT
The name is Professional
The name is Training Center

Enter Name 1 [_____]

Enter Name 2 [_____]

Enter Name 3 [_____]

Enter Name 4 [_____]

Enter Name 5 [_____]

[Submit and display name by Array]

ឧទាហរណ៍ ៣ ៖

```html
<!doctype html>
<html>
<head>
<script src="http://code.jquery.com/jquery-1.10.1.min.js"></script>
<script>
$(document).ready(function(){
  $("#appendex").click(function(){
    $(".divcls").append("<p class='para'><label>New User Name</label>: <input name='username[]'
title='Enter User name'/><label>New User Email</label>: <input name='useremail[]' title='Enter
Email address'/></p>");
  });

});
</script>
<style>
.divcls
{

width:300px;
background:#D0DBDF;
border: solid 1px #355681;
margin:6px;
}
label {
    display: inline-block; width: 7em;
  }
.para{
    border:2px solid #3C5059;
    background-color:#ADC0C9;

}
.table_bg {
  width:40%;
  font-family:verdana;
  font-size:15px;
  color:#fff;
  padding: 10px;
  text-align:center;
}
```

```css
.table_bg th{
    background: #0780BA;

    color: #fff;
    line-height:35px;
  }
.table_bg td{
    background: #99DBFB;
    padding:10px;

    color: #000;
  }
</style>
</head>

<body>
<h1>A PHP array demo</h1>
<button id="appendex">Add More Users</button>
<form action="" method="post">
<div class="divcls">
<p class="para"><label>New User Name</label>: <input name="username[]" title="Enter User name"/>
</br>
<label>New User Email</label>: <input name="useremail[]" title="Enter Email address"/></p>
</div>
<input type="submit" value="Submit and Display Users"/>
</form>
</body>

</html>
< ?php
//Remove the spaces in PHP opening tag
$usernames = $_POST['username'];
$txtemails = $_POST['useremail'];

echo "<table class='table_bg'><tr><th>User Name</th><th>User Email</th></tr>";
foreach( $usernames as $key => $uname ) {
  //echo "<p class='para'>The User name is:".$uname." and User email is: ".$txtemails[$key]."
</p>";
  echo ("<tr><td>$uname</td><td>$txtemails[$key]</td></tr>");
}
  echo ("</table>");
?>
```

លទ្ធផលទទួលបាន

A PHP array demo

Add More Users

| New User Name : | |
| New User Email : | |

Submit and Display Users

User Name	User Email
ETE	Center@gmail.com

លំហាត់អនុវត្តន៍ ១

PHP Array Random

Input Number Array:	25
Input Min Random:	1
Input Max Random:	100

Submit

HTML Table

Index	Elements
0	15
1	89
2	56
0	15

លំហាត់អនុវត្តន៍ ២

Form Validation

Name:	
Username:	
Password:	
Re-type password:	
Gender:	○ Male ○ Female ○ Other
Programming skills:	☐ Java ☐ Android ☐ Ruby ☐ .Net
Contact no:	
Email:	
College:	Select college ▼

Submit

Name	User Name	Password	Re-type Password	Gender	Programming Skill	Contact	Email	College
ETEC CENTER	etec	etec12345	etec12345	Male	Java, Android	0962268884	sok@gmail.com	ETEC CENTER

លំហាត់អនុវត្តន៍ ៣

លំហាត់អនុវត្តន៍ ៤

Array 2 Dimensional គឺជាប្រភេទ Array ដែលការផ្ទុកទិន្នន័យរបស់វាមាន លក្ខណៈជា Row និង Colum ។ Array ប្រភេទនេះវាអាចផ្ទុកទិន្នន័យជារបៀប តារាងទិន្នន័យធម្មួយ ។

	Column 0	Column 1	Column 2
Row 0	**x[0][0]**	**x[0][1]**	**x[0][2]**
Row 1	**x[1][0]**	**x[1][1]**	**x[1][2]**
Row 2	**x[2][0]**	**x[2][1]**	**x[2][2]**

ឧទាហរណ៍ ១ ៖

```php
<!DOCTYPE html>
<html>
<body>

<?php
$cars = array
  (
  array("Volvo",22,18),
  array("BMW",15,13),
  array("Saab",5,2),
  array("Land Rover",17,15)
  );

echo $cars[0][0].": In stock: ".$cars[0][1].", sold: ".$cars[0][2].".<br>";
echo $cars[1][0].": In stock: ".$cars[1][1].", sold: ".$cars[1][2].".<br>";
echo $cars[2][0].": In stock: ".$cars[2][1].", sold: ".$cars[2][2].".<br>";
echo $cars[3][0].": In stock: ".$cars[3][1].", sold: ".$cars[3][2].".<br>";
?>

</body>
</html>
```

លទ្ធផលទទួលបាន ៖

```
Volvo: In stock: 22, sold: 18.
BMW: In stock: 15, sold: 13.
Saab: In stock: 5, sold: 2.
Land Rover: In stock: 17, sold: 15.
```

ឧទាហរណ៍ ២ ៖

```html
<!DOCTYPE html>
<html>
<body>

<?php
$cars = array
  (
  array("Volvo",22,18),
  array("BMW",15,13),
  array("Saab",5,2),
  array("Land Rover",17,15)
  );

for ($row = 0; $row < 4; $row++) {
  echo "<p><b>Row number $row</b></p>";
  echo "<ul>";
  for ($col = 0; $col < 3; $col++) {
    echo "<li>".$cars[$row][$col]."</li>";
  }
  echo "</ul>";
}
?>

</body>
</html>
```

លទ្ធផលទទួលបាន ៖

Row number 0

- Volvo
- 22
- 18

Row number 1

- BMW
- 15
- 13

Row number 2

- Saab
- 5
- 2

Row number 3

- Land Rover
- 17
- 15

ឧទាហរណ៍ ៣ ៖

```php
$a = array(); // array of columns
for($c=0; $c<10; $c++){
    $a[$c] = array(); // array of cells for column $c
    for($r=0; $r<3; $r++){
        $a[$c][$r] = rand(1,100);
    }
}
for ($row = 0; $row < 4; $row++) {
  echo "<p><b>Row number $row</b></p>";
  echo "<ul>";
  for ($col = 0; $col < 3; $col++) {
    echo "<li>".$a[$row][$col]."</li>";
  }
  echo "</ul>";
}
```

លទ្ធផលទទួលបាន ៖

```
Row number 0

    • 78
    • 22
    • 3

Row number 1

    • 24
    • 80
    • 33

Row number 2

    • 53
    • 4
    • 53

Row number 3

    • 43
    • 87
    • 2
```

ឧទាហរណ៍ ៥ ៖

Run »

```php
echo "<h1>Demo Array</h1>";
echo "<hr size=10 color=red/>";
$a = array(); // array of columns
for($c=0; $c<10; $c++){
    $a[$c] = array(); // array of cells for column $c
    for($r=0; $r<3; $r++){
        $a[$c][$r] = rand(1,100);
    }
}
echo "<table border=1 width=200px>";

for ($row = 0; $row < 4; $row++) {
  echo "<tr>";
  for ($col = 0; $col < 3; $col++) {
    echo "<td>".$a[$row][$col]."</td>";
  }
  echo "</tr>";

}
echo "</table>";
```

Demo Array

លទ្ធផលទទួលបាន ៖

70	34	11
60	95	39
37	47	56
4	2	1

<u>លំហាត់អនុវត្តន៍</u>

១) គេមាន Array មួយខ្សែដូចខាងក្រោមចូរសរសេរកូដឲ្យគេអាចOutput និង
Search ដូចខាងក្រោម ៖

```
$Employee = array
  (
  array(1001,"Sok Vanna","Male","IT", "Web Developer",260$),
  array(1002,"Lim Vanna","Male","IT", "Programmer",280$),
  array(1003,"Keo Vesna","Male","IT", "Networker",280$)
  array(1004,"Oun Lim","Male","IT", "Designer",300$)
  );
```

Employee Information

Input Employee ID [_____]

[view] [Search]

ID	Name	Gender	Department	Skill	Salary
1001	Sok Vanna	Male	IT	Web Developer	260$
1002	Lim Vanna	Male	IT	Programmer	280$
1003	Keo Vesna	Male	IT	Networker	280$
1004	Oun Lim	Male	IT	Designer	300$

២)ចូរបង្កើត Array 2 វិមាត្រ Student[][] ដែលអាចផ្ទុកទិន្នន័យជា ៤៧គ៌មាន
ដូចជា ៖ First Name, Last Name, Country & Subject ហើយបង្ហាញ
ទិន្នន័យ ចេញមកក្រៅវិញ ។

First Name			
Last Name			
Country	Australia		
Subject	Write something..		

[Submit]

First Name	Last Name	Country	Subject
ចន្ទ	ភារា	កម្ពុជា	Web Developer
លី	កែវ	កម្ពុជា	Programmer
អ៊ុន	សំណាង	កម្ពុជា	Networker

Associate Array ឬ Array Key ដែលការផ្ទុកទិន្នន័យរបស់វាមិនប្រើប្រាស់តាម Index ពោលគឺវាប្រើប្រាស់នូវ Key ដើម្បី Accessing ទិន្នន័យរបស់វា ។ Array ប្រភេទនេះ គេអាចប្រើប្រាស់ជា លេខ ឬ អក្សរដើម្បីបង្កើតវាឡើង ។

ឧទាហរណ៍ ១ ៖

```php
$marks = array(

    // Ankit will act as key
    "Ankit" => array(

        // Subject and marks are
        // the key value pair
        "C" => 95,
        "DCO" => 85,
        "FOL" => 74,
    ),

    // Ram will act as key
    "Ram" => array(

        // Subject and marks are
        // the key value pair
        "C" => 78,
        "DCO" => 98,
        "FOL" => 46,
    )
);
// Accessing array elements using for each loop
foreach($marks as $mark) {
    echo $mark['C']. " ".$mark['DCO']." ".$mark['FOL']."n";
}
```

លទ្ធផលទទួលបាន ៖

```
95 85 74n78 98 46n
```

ឧទាហរណ៍ ២ ៖


```php
$marks = array(
        "mohammad" => array (
            "physics" => 35,
            "maths" => 30,
            "chemistry" => 39
        ),

        "qadir" => array (
            "physics" => 30,
            "maths" => 32,
            "chemistry" => 29
        ),

        "zara" => array (
            "physics" => 31,
            "maths" => 22,
            "chemistry" => 39
        )
);


echo "Marks for mohammad in physics : " ;
echo $marks['mohammad']['physics'] . "<br />";
echo "Marks for qadir in maths : ";
echo $marks['qadir']['maths'] . "<br />";

echo "Marks for zara in chemistry : " ;
echo $marks['zara']['chemistry'] . "<br />";
```

លំហាត់អនុវត្តន៍

First Name		
First Name	Your name..	
Last Name	Your last name..	
Country	Australia ▼	
Subject	Write something..	
		Submit

First Name	Last Name	Country	Subject
ចន្ទ	គារ	កម្ពុជា	Web Developer
លី	កែវ	កម្ពុជា	Programmer
អូន	សំណាង	កម្ពុជា	Networker