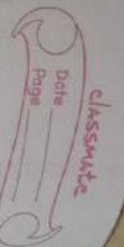


## Module - IV

### Working With PHP



#### I] Array =

used to store multiple values in a single variable.

Each value in an array has a position — index.

\* eg —

```
$d = array ("m", "key", "moni");
```

```
$d[0] = m
```

```
$d[1] = key-
```

```
$d[2] = moni
```

\* 3 types of array :-

a) Numeric (A) / indexed (A) : an (A) with numeric key

b) Associative (A) : an (A) where each id key is associated with a value.

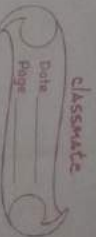
c) Multidimensional (A) :

An (A) containing 1 or more arrays within itself.

#### ~~1~~ Numeric Array :

→ Creating Array =

I By direct Assignment —



< ?php

```
$col[0] = "red";
```

```
$col[1] = "green";
```

?

II By array() construct :

creates a new (A) from the specified

of its elements & also associated keys.

\* \$col = array() → creates an (A) with no elements.

\* \$fr = array ('apple', 'orange');

↓ can be written as

```
$fr[0] = 'apple';
```

```
$fr[1] = 'orange';
```

↓ "

```
$fr[] = 'apple';
```

```
$fr[] = 'orange';
```

↓ "

```
$fr = array (0 => 'apple', 1 => 'orange');
```

(or)

```
$fr[] = orange.
```

```
$fr = array ('red' => 'apple', 'yellow' => 'orange');
```

\$fr['red'] → apple.

III

By using range array :

```
$num = range (1, 5) → 1, 2, 3, 4, 5
```

↓ save as  
\$num = array(1,2,3,4,5);

\* list() construct :  
used to assign sequential array elements to variables in succession.

eg:-  
\$fr = array('app', 'oran');  
list(\$redfr, \$orangefr) = \$fr;  
→ assign the str 'app' to \$redfr &  
'oran' to \$orangefr.

⇒ Multi-Dimensional Arrays =

\* array() construct used to create a multidimensional array.

\* eg -

1) \$breaks = array(  
'brfast' => array('idly', 'chocolate'),  
'lunch' => array('rice', 'biriyani'),  
'snack' => array('bread', 'nuts');

Print \$breaks['lunch'][1] → biriyani.

2) \$lunch = array(  
array('chicken', 'beef'),  
array('egg', 'bread'));

print \$lunch[0][1] → beef

→ Deleting from arrays :  
just call unset().

eg:-  
\$arr[0] = 'wanted';  
\$arr[1] = 'unwanted';  
\$arr[2] = 'again';  
unset(\$arr[2]);  
print \$arr;

→ Array

[0] = wanted  
[1] = unwanted

⇒ Array operators :

\* \$a + \$b — union  
\* \$a == \$b — equality (T → same value)  
\* \$a === \$b — identity  
\* \$a != \$b — inequality  
\* \$a != \$b — non-identity.

⇒ Array Functions =

1) array() → creates an array.  
eg → normal eg of array.



print\_r()  
to print human readable info about array  
(A) - gives str & format use print\_r, <sup>2016</sup> get the value if we use print\_r.

2) array\_combine(): creates an (A) by using the elements from 1 keys (A) & 1 values (A).

eg -> \$f = array("ptr", "Ben");  
\$a = array("35", "37");  
\$c = array\_combine(\$f, \$a);  
print\_r(\$c);  
-> array ([ptr] => 35 [Ben] => 37.)

3) array\_count\_values(): counts all values of an (A)

eg -> \$a = array("A", "eat", "A");  
print\_r(array\_count\_values(\$a));  
-> array ([A] => 2 [eat] => 1)

4) array\_diffs(): compare (A) & returns the diff.

eg -> \$a1 = array("a" => "red", "b" => "green",  
"d" => "yellow");  
\$a2 = array("e" => "red", "f" => "green",  
"g" => "blue");  
\$r = array\_diff(\$a1, \$a2);  
print\_r(\$r); -> array ([0] => yellow)

5) array\_fill(): fill an array with values

eg -> \$a = array\_fill(\$start\_index, \$num, \$value)  
eg -> \$a1 = array\_fill(3, 4, "b");  
print\_r(\$a1);  
-> array ([3] => b [4] => b [5] => b [6] => b)

6) array\_pad(): inserts a specified no. of 'string' with a specified value to an array

eg -> \$a = array\_pad(array, size, value)  
eg -> \$a = array("red", "green");  
print\_r(array\_pad(\$a, 5, "blue"));  
-> array ([0] => red [1] => green [2] => blue [3] => blue [4] => blue)

7) array\_pop(): deletes last element of an (A).

eg -> \$a = array("r", "g", "o");  
array\_pop(\$a);  
print\_r(\$a);  
-> array ([0] => r [1] => g)

-> travelling through the array:

- 2 ways { ① foreach loop ② traversing (A) using list() eg each()

[2] PHP strings =

\* \$str1 = "hello";  
\$str2 = "AK";  
print \$str1.\$str2; -> helloAK

\* concatenation with alignment -> \$my = \$mar;

### \* heredoc syntax :

- In addition to single & double quotes, PHP offers another way to specify a str. → heredoc str.
- This str turns out to be extremely useful for specifying large chunks of variable mixed text.
- operator is << followed by an identifier.

eg → `<?php  
$name = "max";  
$str = <<< Demo`

`hello $name <br>  
This is a`

`msg for you.`

`Demo;`

`echo $str;`

→ `hello max.`

`This is a msg for you.`

### → str functions :

#### 1) strlen() :

`echo strlen("ansar");` → 5

#### 2) strpos() : search for a character/text within a str.

It a match found, this () returns the character position of 1<sup>st</sup> match otherwise returns F.

eg :- `echo strpos("ansar good", "good");` → 6

#### 3) strstr() : finds the occurrence of a str inside another str.

str → strstr(\$str, \$search, \$before\_senry)  
eg → `echo strstr("Hello AK", "AK");` → AK.

#### 4) strcmp() : compares 2 str & return

→ 0 if str1 = str2  
→ < 0 if str1 < str2  
→ > 0 " " > "

eg → `echo ("Hello AK", "Hello AK");` → 0

`echo ("Hello AK", "hello AK");` → -1

(h has highest ascii so h > a)

`echo ("hello AK", "Hello AK");` → 1

#### 5) substr() : returns a part of str.

8he → `substr(str, start, length);`

eg → `echo substr("hello world", 6);` → world

#### 6) str\_replace() : replaces a part of a



Str with another str.

str → substr\_replace (str, replacement, start, length)

eg → echo substr\_replace ("Hello world", "earth", 6);

→ Hello earth.

7) strtolower(): Convert a str into l.case.

eg → echo strtolower ("HELLO");  
→ hello.

### [3] passing info b/w pgs =

\* php will catch the var entered from

1 pg to next.

\* php is gd in the form handling technology that is data passing ( ).

\* php has 2 post method are used to info passing.

\* 3 ways to pass info -

1) passing variables b/w pgs using URL:

Here values are visible to the user. Not secure way to transfer sensitive data like password, user details, etc.

2) passing var b/w pgs using cookies:  
cookies are stored at the user

end. & values can be passed b/w pgs using php.

3) passing var values b/w pgs using session:  
secured way to pass var b/w

pgs. In a member login system the user details are verified & once found OK, a new session is created with user id of the member & value stored at server end.

### I Using URL:

GET & POST methods in HTTP to create dynamically generated pgs & to handle form data.

(i) HTTP GET Method:

\* passes arguments from 1 pg to next as part of URL.

\* <form action=" " method=" " >

action → URL specifies where to send the form-data when a form is submitted.

method → GET & POST specifying the HTTP method to use when sending form data.

\* eg → <form action="index.php" method="GET">  
<label for="name">Enter name: </label>

```
<input type="text" name="name" id="name">
<input type="submit">
</form>
```

```
<?php
$name = $_GET["name"];
echo "your name is: $name";
?>
```

(URL -> key=value along with)

- \* Should not use HTTP GET method in-  
als / spreadsheet.
- \* You are updating a data source such as  
db / spreadsheet.
- \* You are dealing with sensitive info  
like password / credit card details.
- \* You have large amount of data.
- \* Your form contains a file upload control.

### (2) HTTP POST method:

- \* When you send data from a form to  
the server using HTTP POST, the data  
is sent transparently is not in  
http headers.
- \* eg -> Same as GET method, ~~except~~  
use POST instead of GET.  
(URL -> key=value along with)

### ★ GET

- \* Info are visible  
to everyone
- \* Displayed in title bar
- \* Limited amount  
of info to be sent  
(max 2k chars)
- \* Not used for sensitive  
info.
- \* Possible to bookmark  
the pg

### POST

- not displayed
- not visible
- not displayed  
emb of info  
to be sent.
- used.
- not possible

### ★ URL : (eg)

http://localhost/sports.php? sport=cricket &

? -> denote the following chars

constitute a GET str called query str  
sport=cricket -> a var name, an equal to  
a matching value.

? sport=cricket & submit=select.

↓      ↓      ↓  
Key    Key    value separator. Key2    Value2

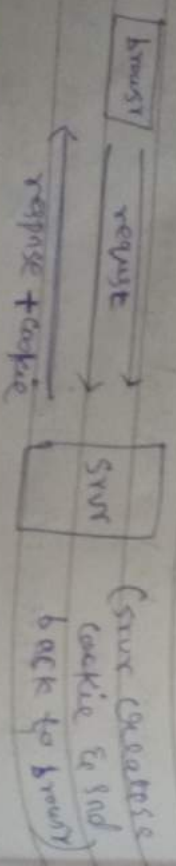
eg -> https://www.domain.com/page? key1=val1 & key2=val2.



## II HTTP cookies :

- \* when user makes an http req, to yr php pg through a web browser, the svr runs the php interpreter. The result of pgm is a web pg that is sent back to user's browser.
- \* once yr pgm sends a pg to the user, the php pgm shut down bcz its work is done.
- \* each req, from the user is seen as an entirely new transaction. This behaviour  $\rightarrow$  stateless protocol.

- \* cookies are small pieces of info that are stored by a user's web browser.
- \* used for authentication, storing site preferences, shopping card contents, etc.
- \* consist of 1 or more name-value pairs containing bits of info.
- \* cookie without an expiration date exist until the browser terminates.
- \* on browser and ex. date algorithm on browser-side store cookies.
- \* it is created at svr side & saved to client browser.



## \* PHP setcookie() :

- \* used to set cookie with http response.
- \* once a cookie is set, you can access it by `$_COOKIE` global var.
- \* eg  $\rightarrow$  `setcookie("username", "amerakbar", time() + 30 * 24 * 60 * 60);`
- \* `$_COOKIE`  $\rightarrow$  used to retrieve a cookie val.
- \* eg  $\rightarrow$  `<?php echo $_COOKIE["username"]; ?>`

$[30 * 24 * 60 * 60] \rightarrow$  cookie expire date.  
 $\downarrow$   
 days hrs min sec

- \* to remove cookie — simply call `setcookie()` eg  $\rightarrow$  `setcookie("username", "", time() - 3600);`  
 (ex. time in sec  $\rightarrow$  3600sec = 1hr)

## III session :

- \* used to store & pass info from 1 pg to another temporarily (until user close the website)
- \* mainly used in shopping websites where we need to store & pass cart info.
- \* creates a unique id for each browser





header ('Location: //www.google.com');  
exit;  
>  
<?php load\_img & etc directly  
<?php go to google)

- 2) header ('Expires:')
- 3) " ('Cache-Control:')
- 4) " ('Content-Type:')
- 5) " ('Refresh:')