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Assignment :: PHP: Built in functions

Q1:- How to get array first element without knowing the key of Array using PHP built-in function only?

```php
Question1.php ×
home > usama > PHP@Assignmnet > Question1.php > ...
1   <?php
2   $vehicle = array(1=>'spelnder', 2=> 'dhoom' , 3=>'apache');
3   echo reset($vehicle) ."\n";
4   ?>
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question1.php
spelnder
usama@usama:PHP@Assignmnet $
```

Q2:-How can we get the second of the current time using date built-in functions?

```
home > usama > PHP@Assignmnet > Question2.php
1  <?php
2  echo time() . " \n";
3  ?>
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question2.php
1582115057
usama@usama:PHP@Assignmnet $
```

Q3:-What is the difference between the functions unlink and unset?

Ans:- Both the functions are used to do some undo operations but used in different situations cause both acts differently. The unlink() function is used when you want to delete the files completely. The unset() Function is used when you want to make that file empty.

Q4:- How to append data into a file named 'abc.txt'?

```
home > usama > PHP@Assignmnet > 🐘 Question4.php > ...
1   <?php
2   $fp= fopen('file.txt', 'a');
3   fwrite($fp , ' this is additional content');
4   fclose($fp);
5   echo "file apppended succesfully" . "\n";
6   ?>
```

```
usama@usama:PHP@Assignmnet $ touch file.txt
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question4.php
file apppended succesfullyusama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assig
nmnet/Question4.php
file apppended succesfully
usama@usama:PHP@Assignmnet $
```

Q5:-How can we get the properties (size, type, width, height) of an image using PHP built-in functions?

Ans : array getimagesize($filename, $image_info)

Q6:-Write a program to check if a string is a PALINDROME or not using built-in functions?

```php
home > usama > PHP@Assignmnet > Question6.php > ...
1    <?php
2    function palindrome($String)
3    {
4
5    if(strrev($String)==$String)
6    return 1;
7    else
8    return 0;
9    }
10   $Input="abcba";
11
12   if (palindrome($Input))
13   echo "palindrome " . " \n";
14   else
15   echo " Non palindrome" . "\n";
```

```
palindrome usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Questio
.php
palindrome
usama@usama:PHP@Assignmnet $ ▋
```

Q7:- How to pass variables by value and reference in PHP? Explain with code snippets.

Pass by value:- PHP variables are passed by value as the function arguments in PHP. When variables in PHP is passed by value, the scope of the variable defined at function level bound within the scope of function. Changing either of the variables doesn't have any effect on either of the variables.

Pass by reference: When variables are passed by reference, use & (ampersand) symbol need to be added before variable argument. For example: function(&$x). Scope of both global and function variables becomes global as both variables are defined by the same reference. Therefore, whenever the global variable is changed, the variable inside function also gets changed and vice-versa is applicable.

```php
home > usama > PHP@Assignmnet > 🐟 Question7.php > ...
1    <?php
2    function Print_By_value($a)
3    {
4    $a=2*$a;
5
6    echo " this is not in effected in global ";
7    }
8    function Print_By_Ref(&$b)
9    {
10       $b=$b+$b;
11
12       echo " this will effect globally ";
13
14   }
15
16   $a = 5;
17   $b = 5;
18
19   Print_By_value($a);
20   echo $a;
21   echo "\n";
22   Print_By_Ref($b);
23   echo $b;
24   ?>
25
26
27
28
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question7.php
 this is not in effected in global 5
 this will effect globally 10


usama@usama:PHP@Assignmnet $
```

Q8:- What's the difference between the include() and require() functions? Show with an example.

Ans : include():-This function is used to copy all the contents of a file called within the function, text wise into a file from which it is called. This happens before the server executes the code.

The **require()** function performs the same as the include() function. It also takes the file that is required and copies the whole code into the file from where the require() function is called. There is a single difference between the include() and require() function.

```php
1   <?php
2   include "abc.php";
3   $z=$y-$x;
4   echo $z;
5   ?>
6
```

```php
home > usama > PHP@Assignmnet > ☠ Question8.php
1   <?php
2   echo "We are entering one file inoto opnothe file " . "\n" ;
3   include "Question1.php" ;
4   echo $vehicle; // this is in question.php content
5   ?>
```

Q9:-Explain different sorting function in PHP? Show with Examples.
1. sort()
   2. rsort()
   3. asort()
   4. ksort()
   5. arsort()
   6. krsort()

```php
1    <?php
2
3
4    $arr =  array (1,3,2,4,5,6,8,11,10,18);
5    /*foreach( $arr as $value ) {
6        echo $value . "  " ;
7                                         // this section is for orignal values;
8    }
9    echo "\n"
10   */
11   sort($arr);
12   foreach( $arr as $value ) {
13       echo $value . "  " ;             // this sectipon is for sort according accending order
14
15
16   }
17   echo "\n";
18   rsort($arr);
19   foreach( $arr as $value ) {
20       echo $value . "  " ;             // this section is for recursive sorting
21
22   }
23   echo "\n";
24   asort($arr);                         // sorts associative arrays in ascending order, according to the
25
26   foreach( $arr as $value ) {
27       echo $value . "  " ;             //
28
29   }
30
31   echo "\n";
32   arsort($arr);                        //   arsorts associative arrays in descending order, according t
```

```
?>usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question9.php
1  2  3  4  5  6  8  10  11  18
18  11  10  8  6  5  4  3  2  1
1  2  3  4  5  6  8  10  11  18
18  11  10  8  6  5  4  3  2  1  35  43  37




?>usama@usama:PHP@Assignmnet $ █
```

Q10:-Differences between printf, print, echo, sprintf,vprintf, vfprintf, vsprintf in PHP?

Ans:-

print :

- Output a string onto the screen – Also "print" is not a real function so you are welcome to remove the parentheses.
- Because this is a language construct and not a function, it cannot be called using variable functions
- Always returns a 1

echo :

- Output one or more strings
- Also not a real function but a language construct
- Does not returns anything so its cannot behave as a function.

printf :

- Output a formatted string
- Returns the length of the outputted string

sprintf:

- Returns a formatted string
- Returns a string produced according to the formatting string *format*

vprintf:

- Returns a formatted string
- Operates as printf() but accepts an array of arguments, rather than a variable number of arguments.
- Display array values as a formatted string according to *format*

vsprintf:

- Display array values as a formatted string according to *format*
- Operates as sprintf() but accepts an array of arguments, rather than a variable number of argument

vfprintf :

- Write a formatted string to a stream
- Write a string produced according to *format* to the stream resource specified by handle
- Returns the length of the outputted string
-

Q11:-Find Time Difference between two dates

'2012-11-04 05:04:00' => Timezone = GMT

'2012-11-05 10:44:00' => Timezone = IST

And Return Date Time in GMT format.

```php
home > usama > PHP@Assignmnet > Question12.php > ...
1   <?php
2   $time1 = new DateTime('2012-11-04 05:04:00', new DateTimeZone('GMT'));
3   $time1->setTimezone(new DateTimeZone('IST'));
4   $istTime1 = $time1->format('Y-m-d\TH:i:s');
5   $timestamp1 = strtotime($istTime1);
6   $time2 = new DateTime('2012-11-05 10:44:00', new DateTimeZone('IST'));
7   $istTime2 = $time2->format('Y-m-d\TH:i:s');
8   $timestamp2 = strtotime($istTime2);
9   print("timestamp for 2012-11-04 05:04:00 => " . $timestamp1 . "<br>");
10  print("timestamp for 2012-11-05 10:44:00 => " . $timestamp2 . "<br>");
11  $diff = abs($timestamp1 - $timestamp2);
12  // to return positive difference only print ("Difference is : " . $diff . "<br>");
13  print ("Final date is : " . date('Y-m-d H:i:s', $diff));
14  ?>
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question12.p
timestamp for 2012-11-04 05:04:00 => 1351992840<br>timestamp for 2012-11
4:00 => 1352092440<br>Final date is : 1970-01-02 09:10:00 usama@usama:PH
mnet $
```

Q12:- Return contents of your working directory in descending order by name in PHP

```php
home > usama > PHP@Assignmnet > 🐘 Question.12.php > ...
1   <?php
2   // specifying directory
3   $mydir = '/home';
4   $myfiles = scandir($mydir , 1);
5   print_r($myfiles);
6   ?>
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question.12.php
Array
(
    [0] => usama1
    [1] => usama
    [2] => test
    [3] => lost+found
    [4] => exercise
    [5] => abc
    [6] => ..
    [7] => .
)
```

Q13:- Write a Code using your knowledge of builtin functions to convert Sample string to Resultant String.

```php
home > usama > PHP@Assignmnet > 🐷 Question13.php > ...
1   <?php
2   $str1='0823076';
3   echo substr(chunk_split($str1, 2, ':'),0, -1) . "\n";
4   ?>
```

```
usama@usama:PHP@Assignmnet $ php /home
08:23:07:6
usama@usama:PHP@Assignmnet $
```

Q14:- Write code to extract the file name from the following string.
   Sample String:

```php
home > usama > PHP@Assignmnet > Question14.php > ...
1  <?php
2  $path= 'www.example.com/public_html/index.php';
3  $file= basename($path , ".php");
4  echo $file."\n";
5  ?>
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Questic
08:23:07:6
usama@usama:PHP@Assignmnet $ ▮
```

Q15:- Write a PHP script to extract the user name from the following email ID.

      Sample String: 'rayy@example.com'
     Using Built-In Functions only!

```php
home > usama > PHP@Assignmnet > 🐘 Question15.php > ...
1    <?php
2    $mailid = 'rayy@example.com';
3    $user = strstr($mailid , '@',true);
4    echo $user."\n";
5    ?>
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question15.php
rayy
usama@usama:PHP@Assignmnet $
```

16:: Generate Random Password of 7 characters form this string '1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZabcefghijklmnopqrs tuvwxyz';

```php
<?php
function password_generate($chars)
{
    $data = '1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZabcefghijklmnopqrstuvwxyz';
    return substr(str_shuffle($data), 0, $chars);
}
    echo password_generate(7)."\n";
?>
```

```
net $ php /home/usama/PHP@Assignmnet/Question16.php
HK3O9Sb
usama@usama:PHP@Assignmnet $
```

Q17:- Write a Code to insert a string at the specified position in a given string.

String: 'The brown fox'

Insert 'quick' between 'The' and 'brown'.

Using Built-In Functions Only

```php
home > usama > PHP@Assignmnet > 🐘 Question17.php > ...
1  <?php
2  $orignal_string = 'the brown fox';
3  $string_to_insert = 'quick';
4  $insert_pos = 4;
5  $new_string = substr_replace($orignal_string , $string_to_insert. ' ', $insert_pos, 0)
6  echo $new_string ."\n";
7  ?>
```

```
ruyy
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question17.php
the quick brown fox
usama@usama:PHP@Assignmnet $
```

Q18:- Write a program in PHP which performs the same function as built-in function array_count_values

```php
1   <?php
2   $subject = array('math' , 20 ,30 , 20 ,'math' , 'science' , 'geography');
3   print_r(array_count_values($subject));
4   ?>
5   |
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question18.php
Array
(
    [math] => 2
    [20] => 2
    [30] => 1
    [science] => 1
    [geography] => 1
)
usama@usama:PHP@Assignmnet $ █
```

Q19:-What is the use of sessions and cookies in PHP? How to set a session and a cookie with a code snippet.

Ans:- PHP Sessions. A session is a way to store information (in variables) to be used across multiple pages. Unlike a cookie, the information is not stored on the users computer.

PHP Cookie. A cookie is often used to identify a user. A cookie is a small file that the server embeds on the user's computer. Each time the same computer requests a page with a browser, it will send the cookie too. With PHP, you can both create and retrieve cookie values.

A cookie is created with the setcookie() function.

Q20:-What is the output of this question ?

```php
<?php
$a = array_fill(5, 6, 'banana');
$b = array_fill(-2, 4, 'pear');
print_r($a);
print_r($b);
?>
```

```
usama@usama:PHP@Assignmnet $ php /home/usama/PHP@Assignmnet/Question20.php
Array
(
    [5] => banana
    [6] => banana
    [7] => banana
    [8] => banana
    [9] => banana
    [10] => banana
)
Array
(
    [-2] => pear
    [0] => pear
    [1] => pear
    [2] => pear
)
usama@usama:PHP@Assignmnet $
```