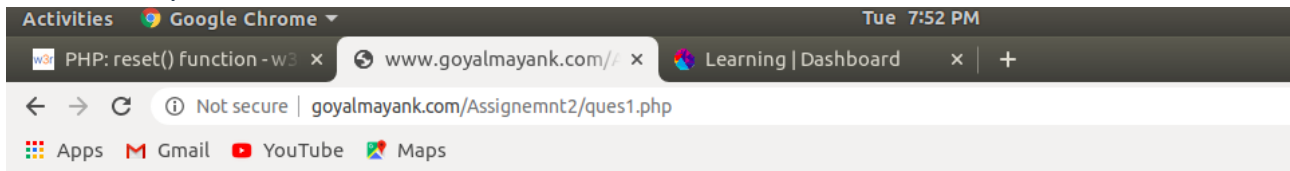


ASSIGNMENT-II(PHP)

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

Soln: -

```
<?php
$arr=[1,2,3,4,5,6,7];
reset($arr);
echo current($arr);
?>
```



1

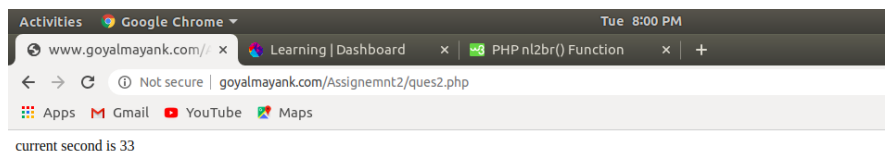
Ques 2: How can we get the second of the current time using date built-in functions?

Soln:-

```
<?php

echo( "current second is ".date('s'));

?>
```



Ques 3:- What is the difference between the functions unlink and unset?

Soln :-

3.a Unlink Function :-

the task of unlink function is to delete a file

Syntax:- `unlink(filename , context);`

Example:-

```
<?php
    $file = fopen("test.txt","w");
    echo fwrite($file,"Hello World. Testing!");
    fclose($file);
    unlink("test.txt");
?>
```

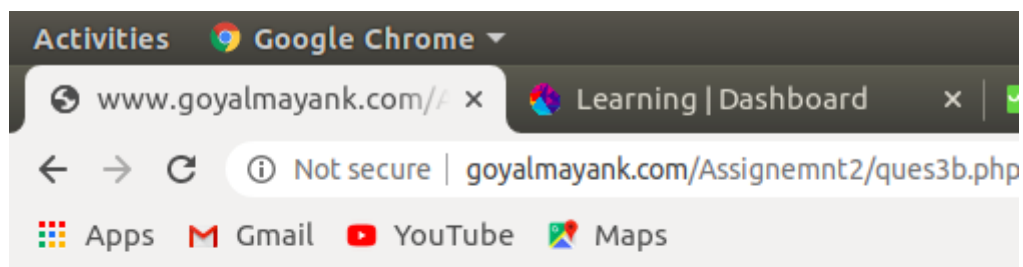
3.b Unset Function :-

the task of unset function is to unset or delete the value of the declared variable

Syntax:- `unset (variable name)`

Example:-

```
<?php
    $a=10;
    echo("the value of a is  ".$a);
    unset($a);
    echo("<br> <br>");
    echo("the value of a is  ".$a);
?>
```



the value of a is 10

the value of a is

Que 4:- How to append data into a file named 'abc.txt'?

Soln :-

```
<? php
    $fp = fopen('text.txt', 'a');
    fwrite($fp, ' this is additional text ');
    fwrite($fp, 'appending data');
    fclose($fp);
    echo "File appended successfully";
?>
```

Ques 5:-How can we get the properties (size, type, width, height) of an image using PHP built-in functions?

Soln:-

```
<?php
    $img_size_array=getimagesize("/home/mayank/Downloads/drup.jpeg");
    $width = $img_size_array[0];
    $height=$img_size_array[1];
    $type=$img_size_array[2];
    echo "width is   ". $width ." px <br><br> and height is   ".$height ."px".
    "<br><br> image type is  ".$type;
?>
```

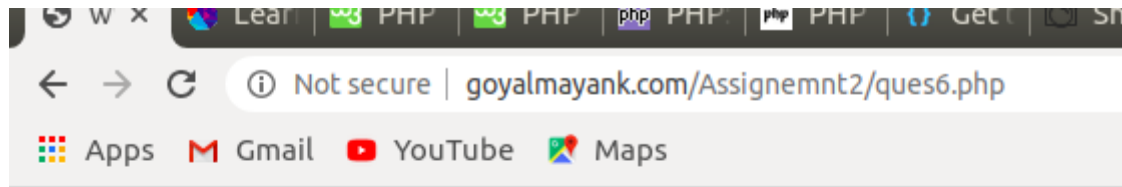


width is 188 px
and height is 268px
image type is 2

Ques 6:-Write a program to check if a string is a PALINDROME or not using built-in functions?

```
<?php
    $str1 = "mm1";
    $str2 = strrev($str1);
    echo "<br> string 1 is ".$str1;
    echo "<br> string 2 is ".$str2;
    if($str1 == $str2)
    {
        echo(" <br> strings are palindrome");
    }
    else
    {
        echo(" <br> Strings are not palindrome");
    }
}
```

?>



string 1 is mm1
string 2 is 1mm
Strings are not palindrome

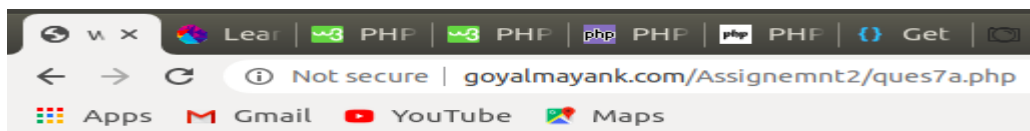
Ques:-7 How to pass variables by value and reference in PHP? Explain with code snippets.
Soln:-

Pass by reference means that when we are passing the variable with its reference to a function then the changes will be depicted in the original value of the variable also. That means the change in value of a variable inside the function then value of variable is also changed outside the function

example:

```
<?php
$a=5;
echo("<br> <br> original value of a".$a);
function calculate(&$a){
    $a*=5;
}

calculate($a);
echo("<br><br> the value of a after function.".$a);
?>
```



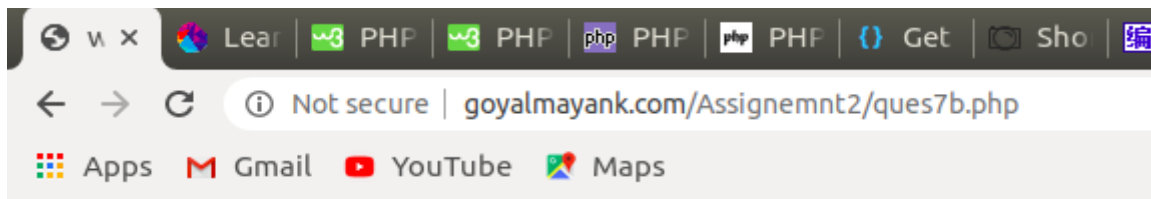
original value of a5
the value of a after function.25

pass by Value means that only values have been passed to the variable that is if certain changes are made to the value of variable inside the function then those changes will not be depicted after the end of the function

example :-

```
<?php
    $a=5;
    echo("<br> <br> original value of a".$a);
    function calculate($a){
        $a*=5;
        echo("<br><br> the value of a inside function".$a);
    }

    calculate($a);
    echo("<br><br> the value of a after function".$a);
?>
```



original value of a5

the value of a inside function.25

the value of a after function.5

Ques 8:- What's the difference between the include() and require() functions? Show with an example.

Soln:- include() and require() functions are the two functions that are used to include or add and php file into another php file

syntax for include
include 'filename.php';

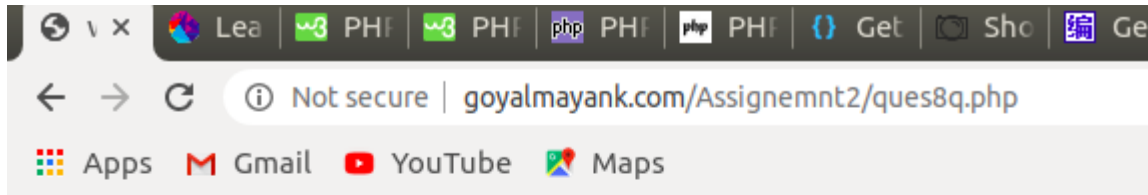
syntax for required
require 'filename.php';

the only difference between include and require is that require make it compulsory to include that file that means if the mention file is not present , created or found the include () function will still execute the rest of the statements of the php program , but in case the file is not present then the required function will generate an error message and program will not execute

example

include () function:-

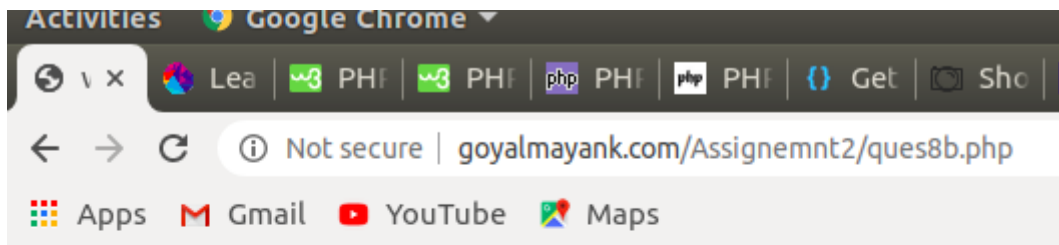
```
<?php
$a=10;
echo " <br> the value is:". $a;
include'my.php';
echo " <br> the value is:". $a;
?>
```



the value is:10
the value is:10

require() function :-

```
<?php
$a=10;
echo " <br> the value is:". $a;
require'my.php';
echo " <br> the value is:". $a;
?>
```



the value is:10

Ques 9: Explain different sorting function in PHP? Show with Examples.

9.1 sort()

the sort function is used to sort the array elements in the ascending order . If it is an string array then elements are sorted in ascending alphabetical orders (according to ASCII values) . Numerical or constant elements are also sorted in ascending orders

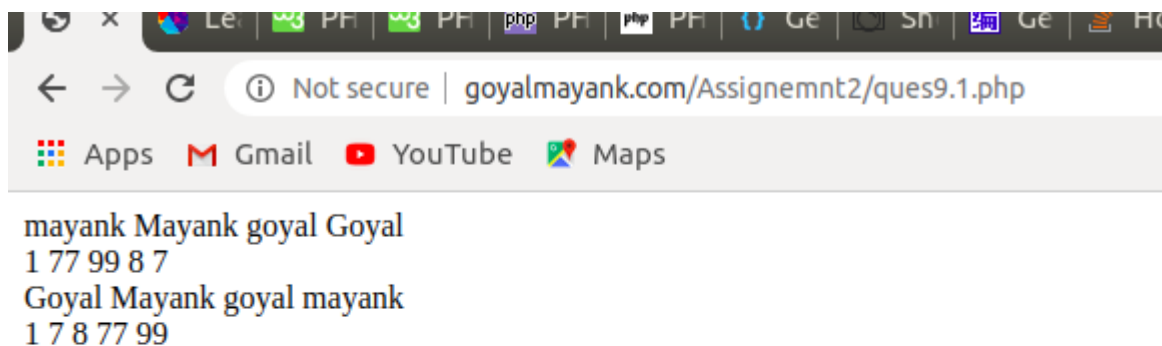
```
<?php
$arr1=["mayank","Mayank","goyal","Goyal"];
$arr2=[1,77,99,8,7];
$c1=count($arr1);
$c2=count($arr2);
for($x = 0; $x < $c1; $x++) {
    echo $arr1[$x]." \t \t ";

}
echo"<br>";
for($x = 0; $x < $c2; $x++) {
    echo $arr2[$x]." \t \t";
```

```
}
    sort($arr1);
    Sort($arr2);
    echo"<br>";
    for($x = 0; $x < $c1; $x++) {
        echo $arr1[$x]." \t \t ";

    }
    echo"<br>";
    for($x = 0; $x < $c2; $x++) {
        echo $arr2[$x]." ";
```

```
}
?>
```



9.2 rsort()

rsort() sorts the elements of the array in the reverse or the descending order

```
<?php
$arr1=["mayank","Mayank","goyal","Goyal"];
$arr2=[1,77,99,8,7];
$c1=count($arr1);
$c2=count($arr2);
for($x = 0; $x < $c1; $x++) {
    echo $arr1[$x]." \t \t ";

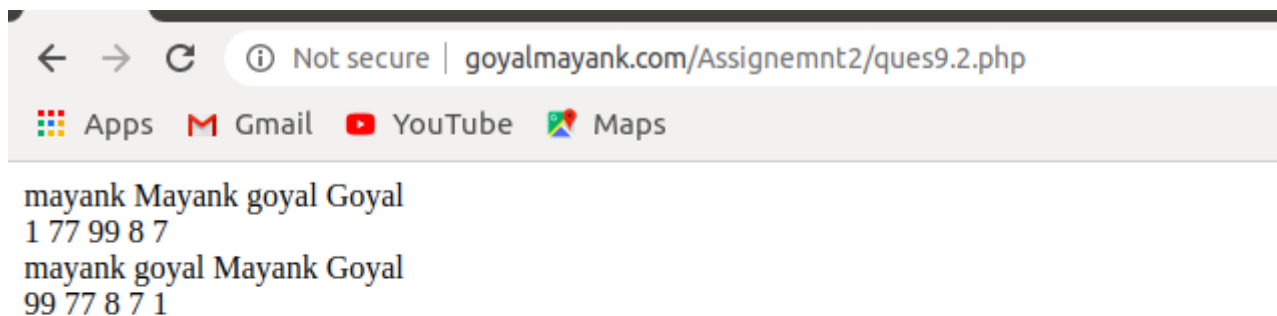
}
echo"<br>";
for($x = 0; $x < $c2; $x++) {
    echo $arr2[$x]." \t \t ";

}

sort($arr1);
Sort($arr2);
echo"<br>";
for($x = 0; $x < $c1; $x++) {
    echo $arr1[$x]." \t \t ";

}
echo"<br>";
for($x = 0; $x < $c2; $x++) {
    echo $arr2[$x]." ";

}
?>
```

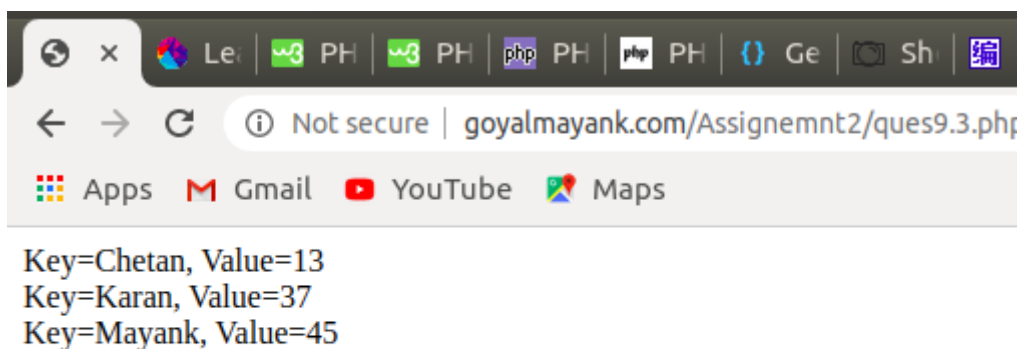


9.3 asort()

asort function sorts the associative value in ascending order

```
<?php
$page = array("Mayank"=>"45", "Karan"=>"37", "Chetan"=>"13");
asort($age);

foreach($age as $x => $x_value) {
    echo "Key=" . $x . ", Value=" . $x_value;
    echo "<br>";
}
?>
```

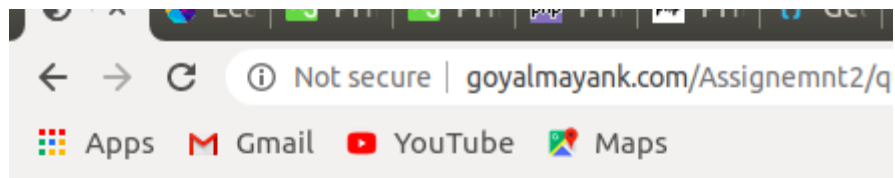


9.4 ksort()

ksort sorts the associative array with help of ascending order of key

```
<?php
$page = array("Mayank"=>"13", "Karan"=>"73", "Chetan"=>"43");
ksort($age);

foreach($age as $x => $x_value) {
    echo "Key=" . $x . ", Value=" . $x_value;
    echo "<br>";
}
?>
```



Key=Chetan, Value=43
Key=Karan, Value=73
Key=Mayank, Value=13

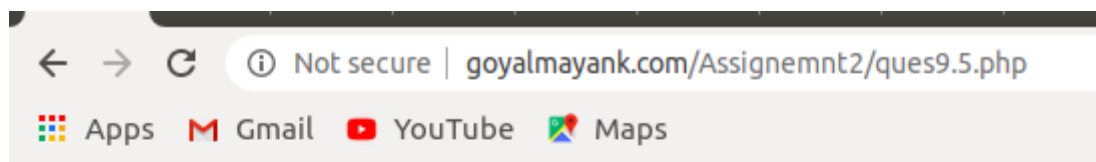
9.5 arsort()

sorts associative array in descending order according to the value

<?php

```
$age = array("Mayank"=>"13", "Karan"=>"73", "Chetan"=>"43");  
arsort($age);
```

```
foreach($age as $x => $x_value) {  
    echo "Key=" . $x . ", Value=" . $x_value;  
    echo "<br>";  
}  
?>
```



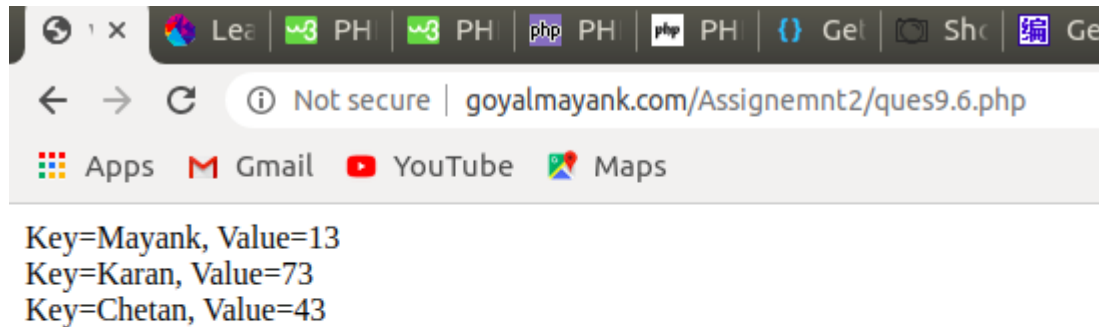
Key=Karan, Value=73
Key=Chetan, Value=43
Key=Mayank, Value=13

9.6 krsort()

sorts an associative array in descending order with respect to the key

```
<?php
$page = array("Mayank"=>"13", "Karan"=>"73", "Chetan"=>"43");
krsort($page);

foreach($page as $x => $x_value) {
    echo "Key=" . $x . ", Value=" . $x_value;
    echo "<br>";
}
?>
```



Ques 10: - Differences between printf, print, echo, sprintf, vprintf, fprintf, vsprintf in PHP?
Soln:-

1. printf():- the printf() function is used to output a formatted string
2. print():- the print() function prints one or more strings
3. echo :- like print echo is also used to print the value on screen but the only difference is that echo does not have any return type
4. sprintf():- the sprintf function writes an formatted string to variable
5. vprintf():- the vprintf() is used to give output of an formatted string
6. fprintf():- writes the formatted string to a specified output stream (example file or databases)
7. vsprintf():- writes formatted string

example:-

```
<?php
$number = 123;

printf("With 2 decimals: %1$.2f\n", $number);
printf("With no decimals: %1$u", $number);

$str = "Hello world!";
print "<br><br>";
print $str;
print "<br>What a nice day!";
echo "<br> <br>". $number;
```

```

$text=sprintf("%f",$number);
echo"<br> <br> ".$text;

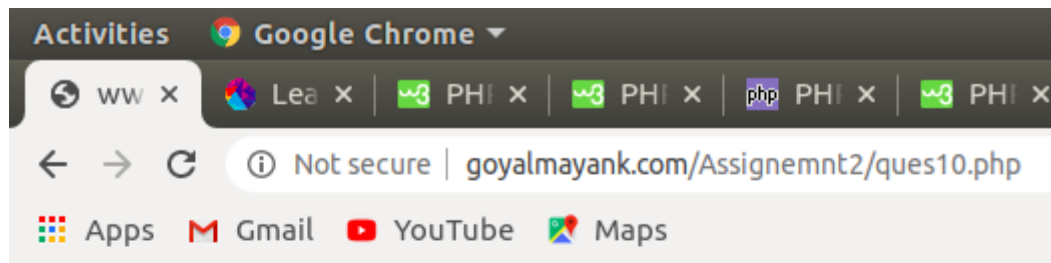
$num2= 2307;
vprintf("%f %d ",array($number,$num2));

$file = fopen("test.txt","w");
vfprintf($file,"%f%f",array($num1,$num2));

$txt1 = vsprintf("%f%f",array($number,$num2));
echo"<br> <br> ".$txt1;

?>

```



With 2 decimals: 123.00

With no decimals: 123

Hello world!

What a nice day!

123

123.000000123.000000 2307

123.0000002307.000000

Ques 11: - 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.

Soln:-

Ques 12:- Return contents of your working directory in descending order by name in PHP

soln:-

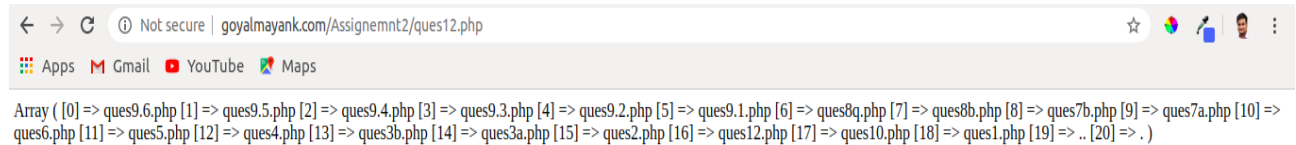
```

<?php
$dir = "/var/www/html/goyalmayank.com/public_html/Assignemnt2";

// Sort in descending order
$b = scandir($dir,1);

```

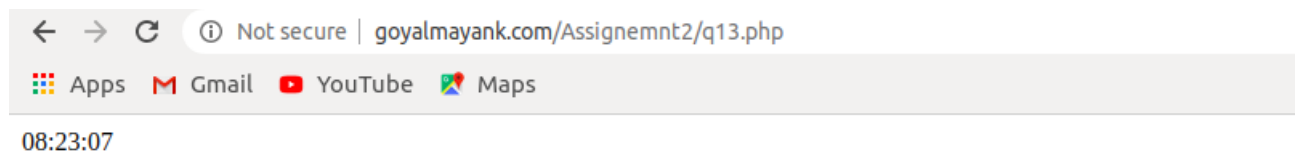
```
print_r($b);  
?>
```



Q13:- te a Code using your knowledge of builtin functions to convert Sample string to Resultant String.
Sample string: '082307'
Resultant String: '08:23:07'

soln :-

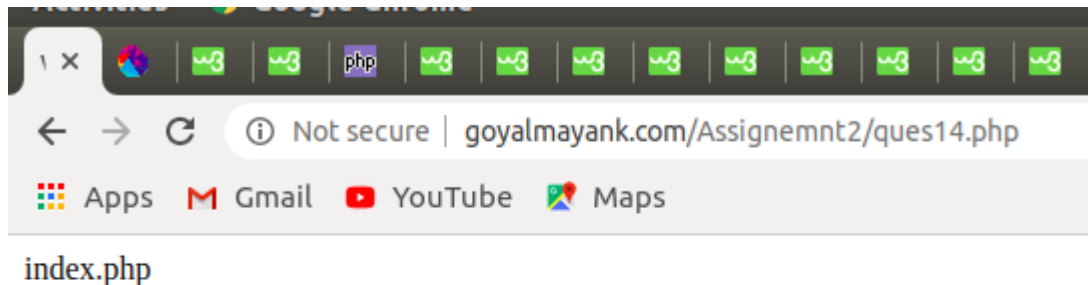
```
<?php  
$str = "082307";  
echo substr(chunk_split($str,2,":"),0,-1);  
?>
```



Q14- Write code to extract the file name from the following string.
sample String: 'www.example.com/public_html/index.php?q=123'
Expected output: 'index.php'
Using Built-In Functions only!

Soln:-

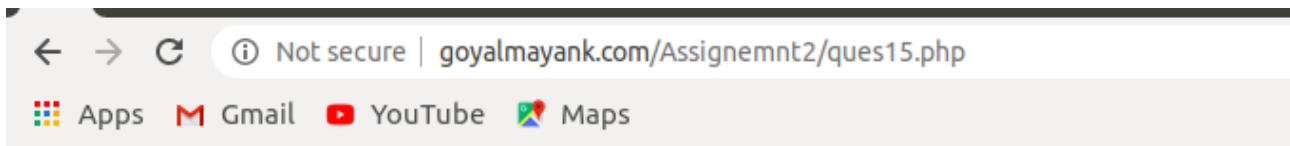
```
<?php
$path = 'www.example.com/public_html/index.php?q=123';
$x = substr(strrchr($path,"/"),1);
$file_name = explode("?", $x);
echo $file_name[0];
?>
```



Q15te a PHP script to extract the user name from the following email ID.
Sample String: 'rayy@example.com'
Using Built-In Functions only!

soln :-

```
<?php
$sample = 'rayy@example.com';
$res= strstr($sample , '@',true);
echo $res;
?>
```

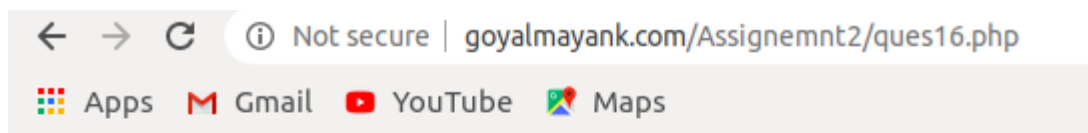


rayy

ques :16 Generate Random Password of 7 characters form this string
'1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZabcefghijklmnopqrstuvwxyz';
Note: Don't use the rand() function. Check other built-in functions to get the result.

Soln:-

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



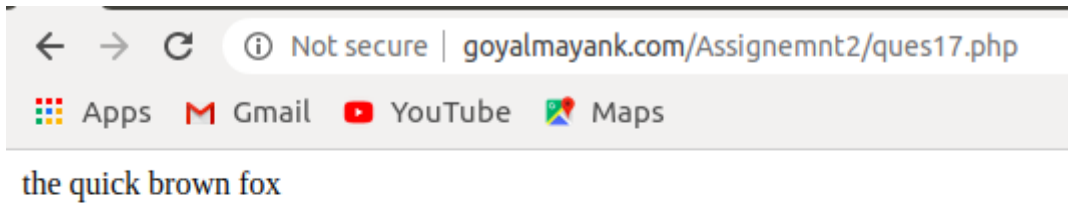
ieapSj0

ques 17 :- 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

soln :-

```
<?php
$str='the brown fox';
$ins='quick ';
$res=substr_replace($str,$ins,4,0);
echo $res."\n";
```

?>

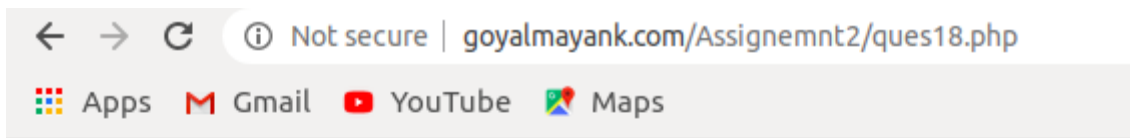


Ques :-18 Write a program in PHP which performs the same function as built-in function array_count_values.

Soln:-

```
<?php
    $arr=["mayank", "goyal", "goyal", "drupal", "mayank", "ttn","ttn"];
    sort($arr);
    $len=count($arr);
    $sum=1;
    for($i=0;$i<$len;$i++)
    {
        if($arr[$i]==$arr[$i+1])
        {
            $sum++;
        }
        else
        {
            echo $arr[$i]." => ".$sum." ";
            $sum=1;
        }
    }
}
```

?>



drupal => 1 goyal => 2 mayank => 2 ttn => 2

q19:- What is the use of sessions and cookies in PHP? How to set a session and a cookie with a code snippet.

Soln:-

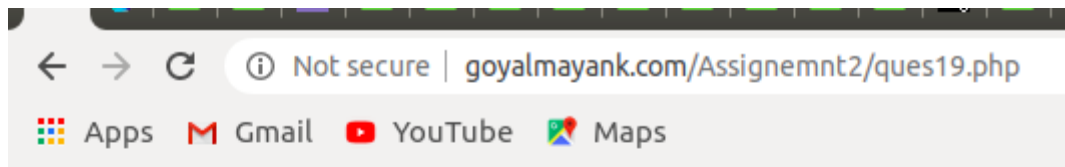
cookie :-

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.

Session :- Session variables stores user information to be used across multiple pages (e.g. username, favorite color, etc). By default, session variables last until the user closes the browser.

Program to add session and cookies in a php program

```
<?php
session_start();
$cookie_name="mayank";
$cookie_value="goyal";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");
$_SESSION["favcolor"]="red";
$_SESSION["favfestival"]="holi";
echo "session variable started " . $_SESSION["favcolor"] . " " . $_SESSION["favfestival"];
echo "<br> <br>";
if(!isset($_COOKIE[$cookie_name])) {
    echo "Cookie named '" . $cookie_name . "' is not set!";
} else {
    echo "Cookie '" . $cookie_name . "' is set!<br>";
    echo "Value is: " . $_COOKIE[$cookie_name] ;
}
?>
```



session variable started red holi

Cookie 'mayank' is set!
Value is: goyal

Ques 20 :- What is the output of this question ?

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

soln:- array fill function is used to fill the array with values

syntax:- array_fill(index , number , value);

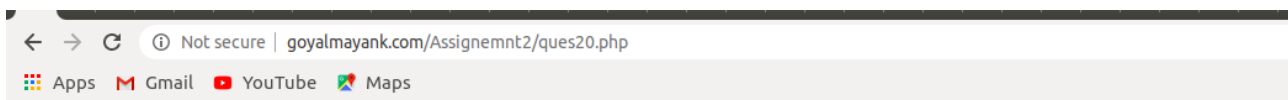
index:- tells index value of first index of returned array

number:- specifies the total number of elements to be inserted

value:- Tells the value to be applied or filled

the output of the following code will be

Array ([5] => banana [6] => banana [7] => banana [8] => banana [9] => banana
[10] => banana) Array ([-2] => pear [0] => pear [1] => pear [2] => pear)



Array ([5] => banana [6] => banana [7] => banana [8] => banana [9] => banana [10] => banana) Array ([-2] => pear [0] => pear [1] => pear [2] => pear)