1. Variable, Constant in PHP

```
<!-- variables, constant program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>


<?php

// variables

$x = 10;

$y = 20;

$text = $x + $y;


// constants

define("Name", "ShubhamDahiya", true);

echo $x + $y ."<br> ";

echo Name;

?>


</body>

</html>
```

OUTPUT:

30
ShubhamDahiya

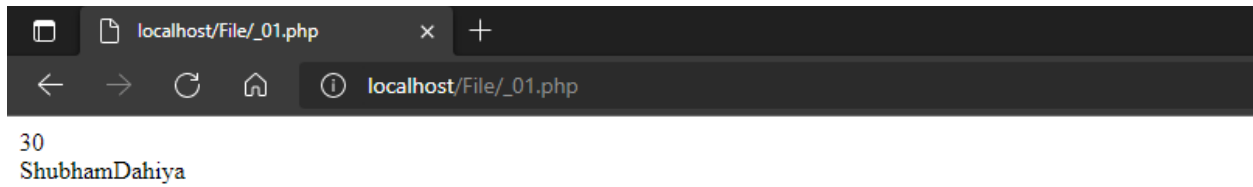## 2. Arithmethic + increment/decrement Operator in PHP

<!-- arithmetic + increment/decrement operator program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>

<?php

$a = 42;

$b = 20;

echo "a = $a <br> b = $b

";

$result = $a + $b;

echo "Addtion Operator: $result
";

$result = $a - $b;

```php
echo "Substraction Operator: $result <br/>";


$result = $a * $b;

echo "Multiplication Operator: $result <br/>";


$result = $a / $b;

echo "Division Operator: $result <br/>";


$result = $a % $b;

echo "Modulus Operator: $result <br/>";


//  exponential operator not working

//  $result = $a ** $b;

//  echo "Exponential Operator : $result <br/>";


$result = $a++;

echo "Increment Operator: $result <br/>";


$result = $a--;

echo "Decrement Operator: $result <br/>";

?>


</body>
</html>
```
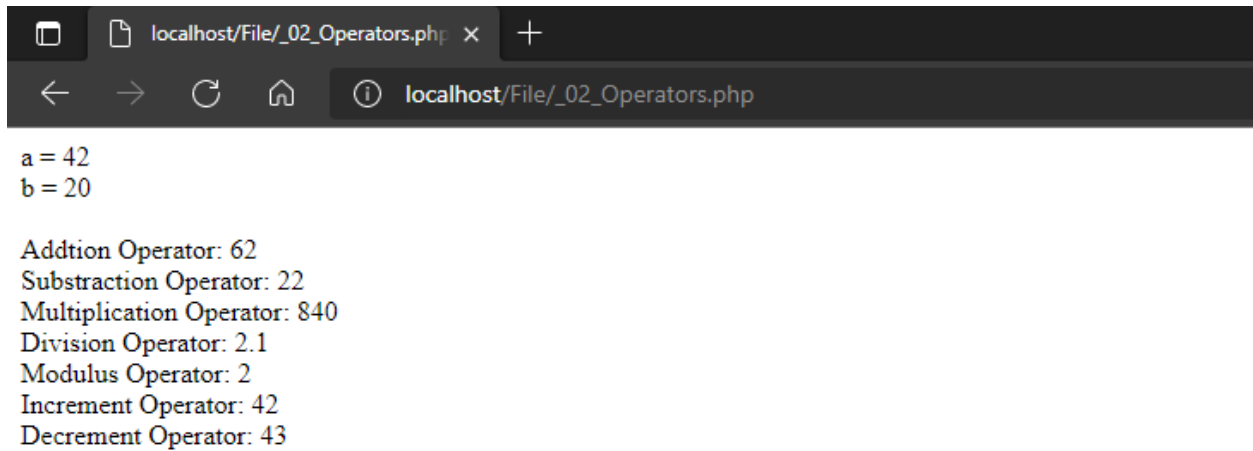
OUTPUT:

a = 42
b = 20

Addtion Operator: 62
Substraction Operator: 22
Multiplication Operator: 840
Division Operator: 2.1
Modulus Operator: 2
Increment Operator: 42
Decrement Operator: 43

3. Assignment Operator Program in PHP

```
<!-- assignment operator program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>

<?php

$a = 17;

$b = 10;


echo "a = $a <br> b = $b <br> <br>";


$result = $a + $b;

echo "result = a + b : $result <br/>";
```

```php
$result += $a;
echo "result += a : $result <br/>";


$result -= $a;
echo "result -= a : $result <br/>";


$result *= $a;
echo "result *= a : $result <br/>";


$result /= $a;
echo "result /= a : $result <br/>";


$result %= $a;
echo "result %= a : $result <br/>";
?>


</body>
</html>
```
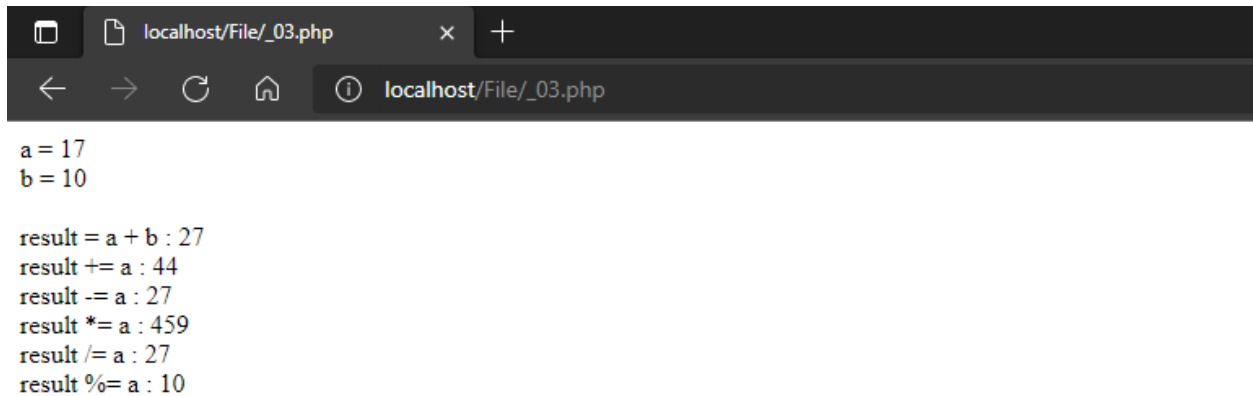
OUTPUT:

```
a = 17
b = 10

result = a + b : 27
result += a : 44
result -= a : 27
result *= a : 459
result /= a : 27
result %= a : 10
```

4. Comparison Operator Program in PHP

```php
<!-- comparison operator program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>

<?php

$a = 15;

$b = 20;


echo "a = $a <br> b = $b <br> <br>";


if( $a == $b ) {

echo "Result1 : a is equal to b<br/>";
```

```php
}else {
echo "Result1 : a is not equal to b<br/>";
}

echo "<br>";
if( $a > $b ) {
echo "Result2 : a is greater than  b<br/>";
}else {
echo "Result2 : a is not greater than b<br/>";
}

echo "<br>";

if( $a < $b ) {
echo "Result3 : a is less than  b<br/>";
}else {
echo "Result3 : a is not less than b<br/>";
}
echo "<br>";

if( $a != $b ) {
echo "Result4 : a is not equal to b<br/>";
}else {
echo "Result4 : a is equal to b<br/>";
}
echo "<br>";
```

```php
if( $a >= $b ) {

echo "Result5 : a is either greater than or equal to b<br/>";

}else {

echo "Result5 : a is neither greater than nor equal to b<br/>";

}

echo "<br>";


if( $a <= $b ) {

echo "Result6 : a is either less than or equal to b<br/>";

}else {

echo "Result6 : a is neither less than nor equal to b<br/>";

}

?>
```

</body>

</html>

OUTPUT:

a = 15
b = 20

Result1 : a is not equal to b

Result2 : a is not greater than b

Result3 : a is less than b

Result4 : a is not equal to b

Result5 : a is neither greater than nor equal to b

Result6 : a is either less than or equal to b

:
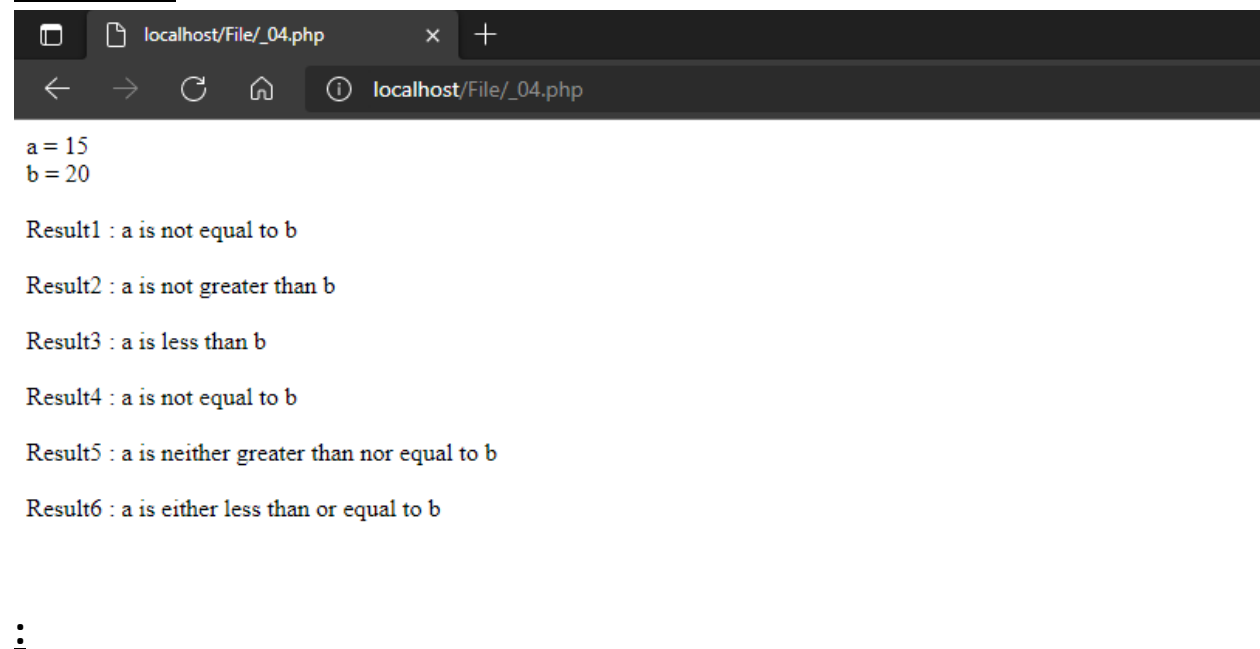
5. Else-if program in PHP

```
<!-- Else-if program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>

<?php
$age = 20;

echo "age = $age <br> <

<?php
$day = "5";

switch ($day) {
case "1":
echo "It is Monday!";
break;
case "2":
echo "It is today!";
break;
case "3":
echo "It is Wednesday!";
break;
case "4":
```

```php
echo "It is Thursday!";

break;

case "5":

echo "It is Friday!";

break;

case "6":

echo "It is Saturday!";

break;

case "7":

echo "It is Sunday!";

break;

default:

echo "Invalid number!";

}

?>br>";


if ($age < 18)

{

echo "Your age is less than 18!";

}

elseif ($age >+ 18 && $age < 30)

{

echo "Your age is between 18 and 30!";

}

elseif ($age >= 30 && $age < 50)

{

echo "Your age is between 30 and 50!";
```
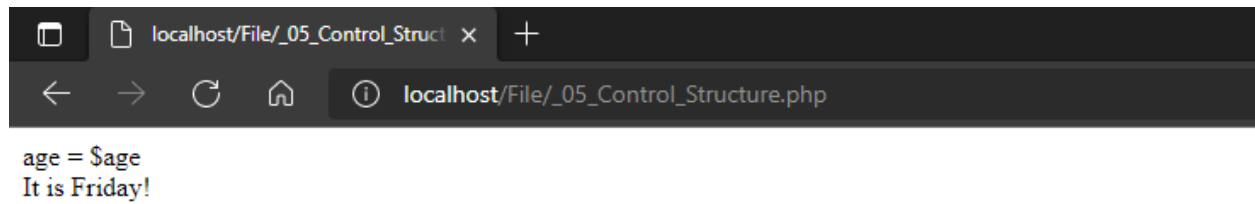
```php
}

else

{

echo "Your age is greater than 50!";

}

?>


</body>

</html>
```

OUTPUT:


```
age = $age
It is Friday!
```

6. **Switch Program in PHP**

```php
<!-- switch program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>


<?php
$day = "5";

echo "day= $day <br> <br>";


switch ($day) {

case "1":

echo "day is Monday!";

break;

case "2":

echo "day is today!";

break;

case "3":

echo "day is Wednesday!";

break;

case "4":

echo "day is Thursday!";

break;

case "5":

echo "day is Friday!";

break;
```
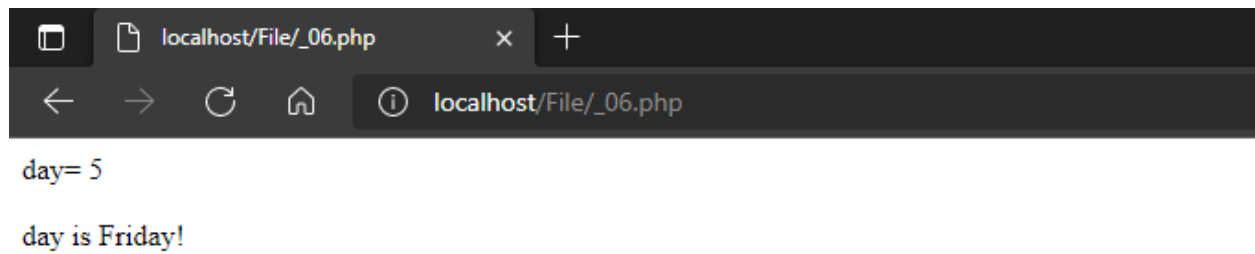
```php
case "6":

echo "day is Saturday!";

break;

case "7":

echo "day is Sunday!";

break;

default:

echo "Invalid number!";

}

?>
```

```html
</body>
</html>
```

OUTPUT:

day= 5

day is Friday!

7. While-Loop program in PHP

```
<!-- while-loop program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>


<?php


$i=1;


while($i<=5){

echo "The number is " . $i . "<br>";

$i++;

}

?>


</body>

</html>
```

OUTPUT:

The number is 1
The number is 2
The number is 3
The number is 4
The number is 5
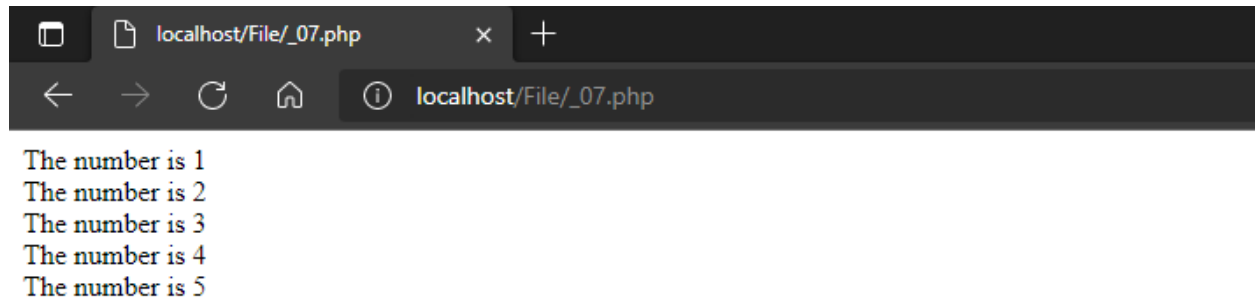
8. Do-While program in PHP

```php
<!-- do-while program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>


<?php

$x = 1;

do {

echo "1 is not greater than 10." . "<br>";

$x++;

} while ($x > 10);
```

echo $x;

?>

</body>

</html>

OUTPUT:

localhost/File/_08.php

localhost/File/_08.php

1 is not greater than 10.
2
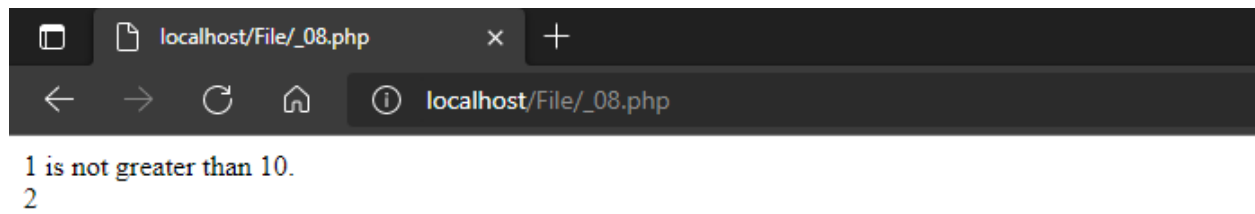
9. For-Loop program in PHP

<!-- for-loop program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>

```php
<?php
for ($i=1; $i<=10; ++$i)
{
echo "The square of $i is ". $i * $i . ".</br>";
}
?>
</body>
</html>
```

OUTPUT:

The square of 1 is 1.
The square of 2 is 4.
The square of 3 is 9.
The square of 4 is 16.
The square of 5 is 25.
The square of 6 is 36.
The square of 7 is 49.
The square of 8 is 64.
The square of 9 is 81.
The square of 10 is 100.

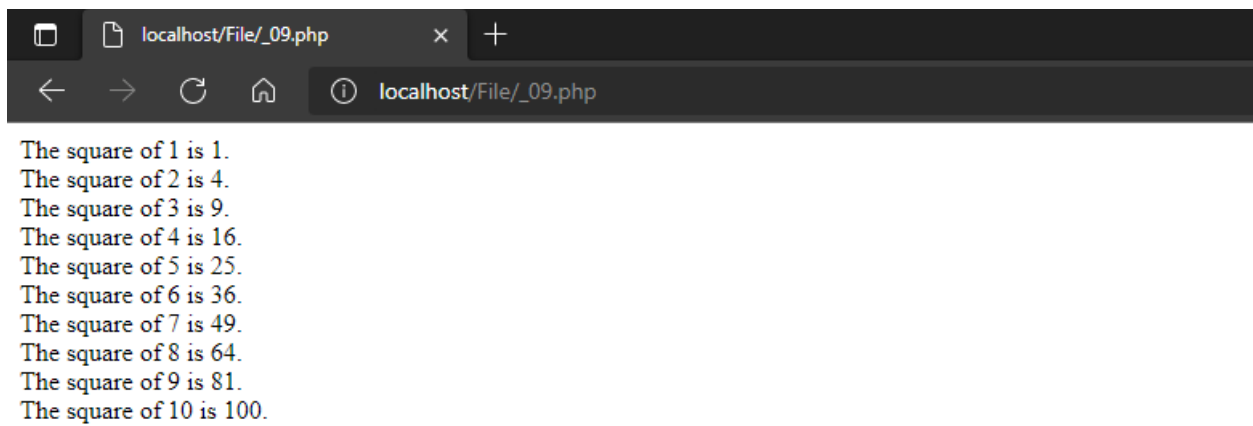## 10. For-Each Loop Program in PHP

```php
<!-- for-each loop program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>


<?php

$fruits = array('apple', 'banana', 'orange', 'grapes');

foreach ($fruits as $fruit)

{

echo $fruit;

echo "<br/>";

}


?>


</body>

</html>
```

OUTPUT:


```
localhost/File/_10.php

localhost/File/_10.php

apple
banana
orange
grapes
```
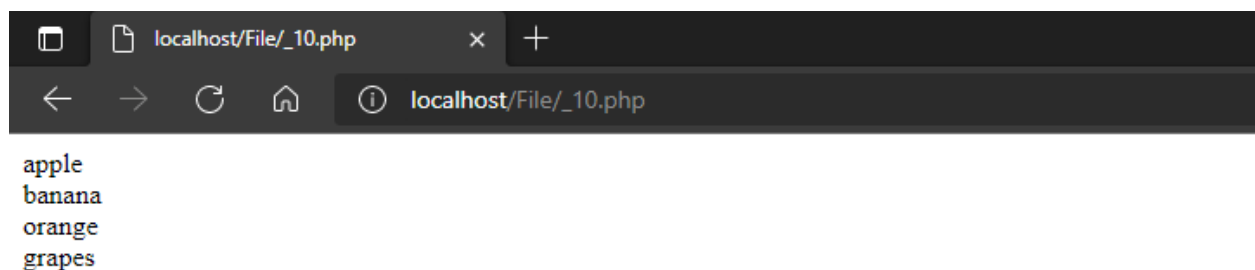
## 11.	Array Program in PHP

```
<!-- Array program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>

<?php
/* 1st simple method */

$numbers = array( 1, 2, 3, 4, 5);


foreach( $numbers as $value ) {

echo "Value is $value <br />";

}


echo "<hr>";

/* Second method to create array. */

$numbers[0] = "one";

$numbers[1] = "two";

$numbers[2] = "three";

$numbers[3] = "four";

$numbers[4] = "five";


foreach( $numbers as $value ) {

echo "Value is $value <br />";
```
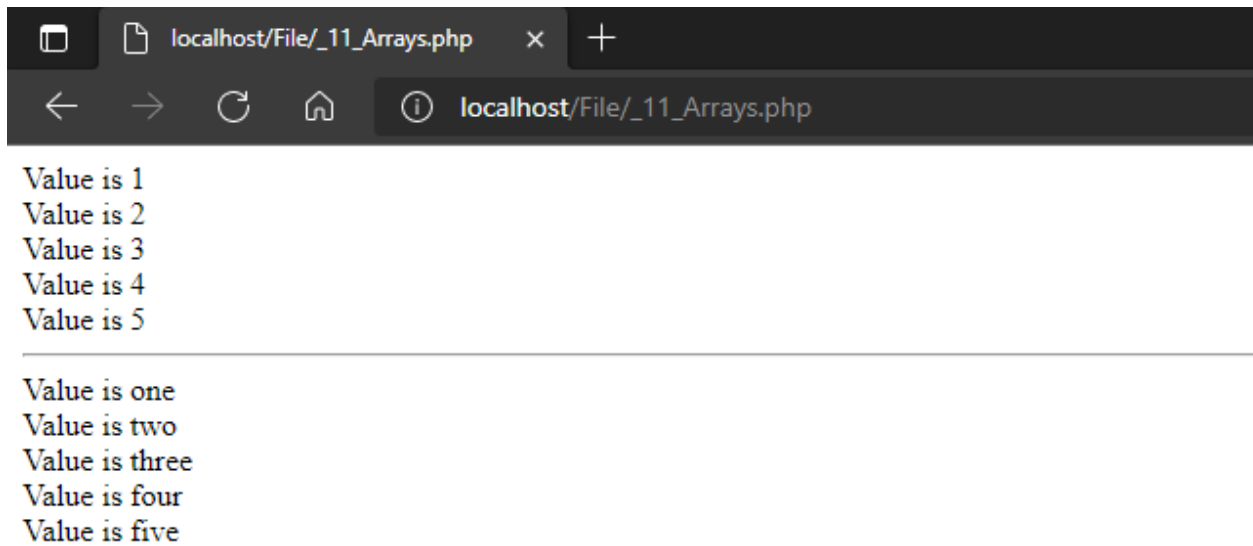
```
}
?>


</body>

</html>
```

OUTPUT:

```
Value is 1
Value is 2
Value is 3
Value is 4
Value is 5
_____

Value is one
Value is two
Value is three
Value is four
Value is five
```

12.   Associative Array Program in PHP

```
<!-- Associative Array program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>


<?php
```
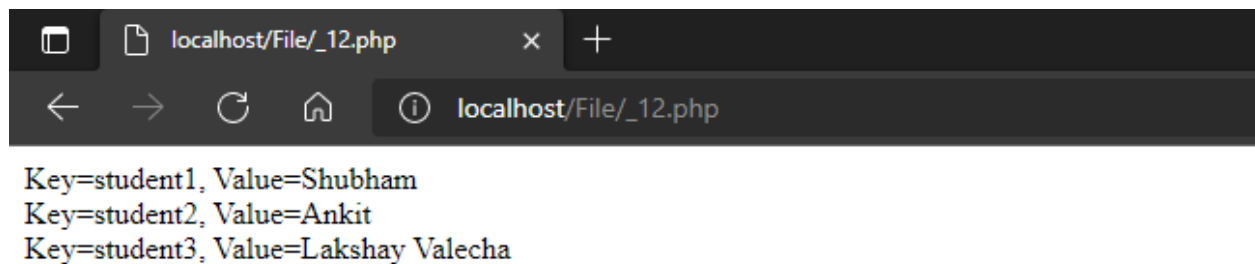
```php
$students = array("student1"=>"Shubham", "student2"=>"Ankit", "student3"=>"Lakshay Valecha");


foreach($students as $key => $value) {
echo "Key=" . $key . ", Value=" . $value;
echo "<br>";
}
?>


</body>
</html>
```

OUTPUT:

Key=student1, Value=Shubham
Key=student2, Value=Ankit
Key=student3, Value=Lakshay Valecha

13.   Function - Global_variable program in PHP
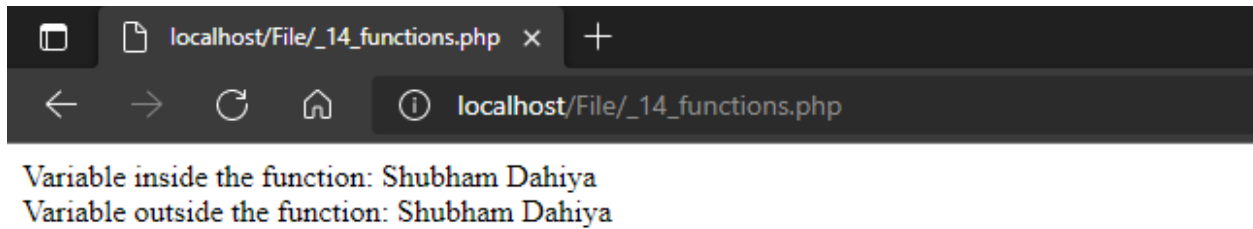
```
<!-- Function global_variable program | Shubham Dahiya -->
<!DOCTYPE html>
<html>
<body>

<?php
$name = "Shubham Dahiya";      //Global Variable
function global_var()
{
global $name;     //can't access name without declaring like this inside function
echo "Variable inside the function: ". $name;
echo "</br>";
}
global_var();
echo "Variable outside the function: ". $name;
?>

</body>
</html>
```

OUTPUT:

Variable inside the function: Shubham Dahiya
Variable outside the function: Shubham Dahiya

14.   Function $GLOBALS instead of global program in PHP

```php
<!-- Function $GLOBALS instead of global program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>

<?php

$num1 = 5;     //global variable

$num2 = 13;    //global variable

function global_var()

{

// IMPORTANT

$sum = $GLOBALS['num1'] + $GLOBALS['num2'];

echo "Sum of global variables is: " .$sum;
```
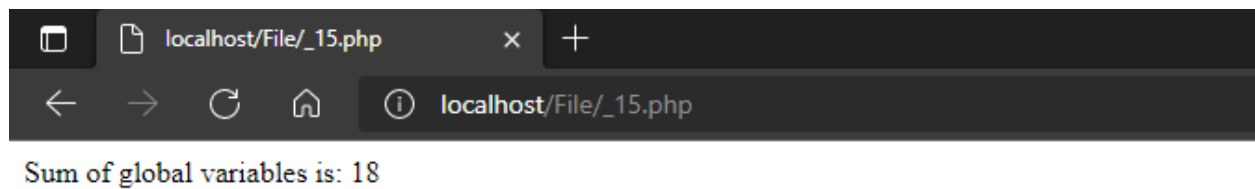
```
}


global_var();

?>


</body>

</html>
```

OUTPUT:

localhost/File/_15.php

localhost/File/_15.php

Sum of global variables is: 18

15.   Static variable Program in PHP

```
<!-- static vairable program | Shubham Dahiya -->

<!DOCTYPE html>

<html>

<body>
```

```php
<?php
function static_var()
{
static $num1 = 3;     //static variable
$num2 = 6;        //Non-static variable

//increment in non-static variable
$num1++;
//increment in static variable
$num2++;

echo "Static: " .$num1 ."</br>";
echo "Non-static: " .$num2 ."</br>";
}

//first function call
static_var();

//second function call
static_var();
?>

</body>
</html>
```
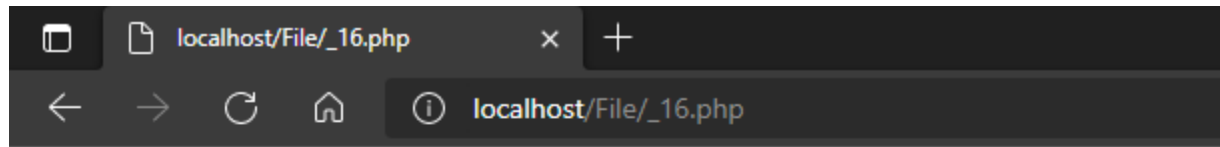
OUTPUT:

Static: 4
Non-static: 7
Static: 5
Non-static: 7