

**LAPORAN RESMI
WORKSHOP TEKNOLOGI WEB DAN APLIKASI**

“PHP 2”



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BAB I

PENDAHULUAN

1. Tujuan Penelitian

1. Memahami tentang Array di PHP
2. Memahami penggunaan Fungsi dalam PHP
3. Memahami tentang String dan Date
4. Memahami tentang Modularisasi dalam PHP

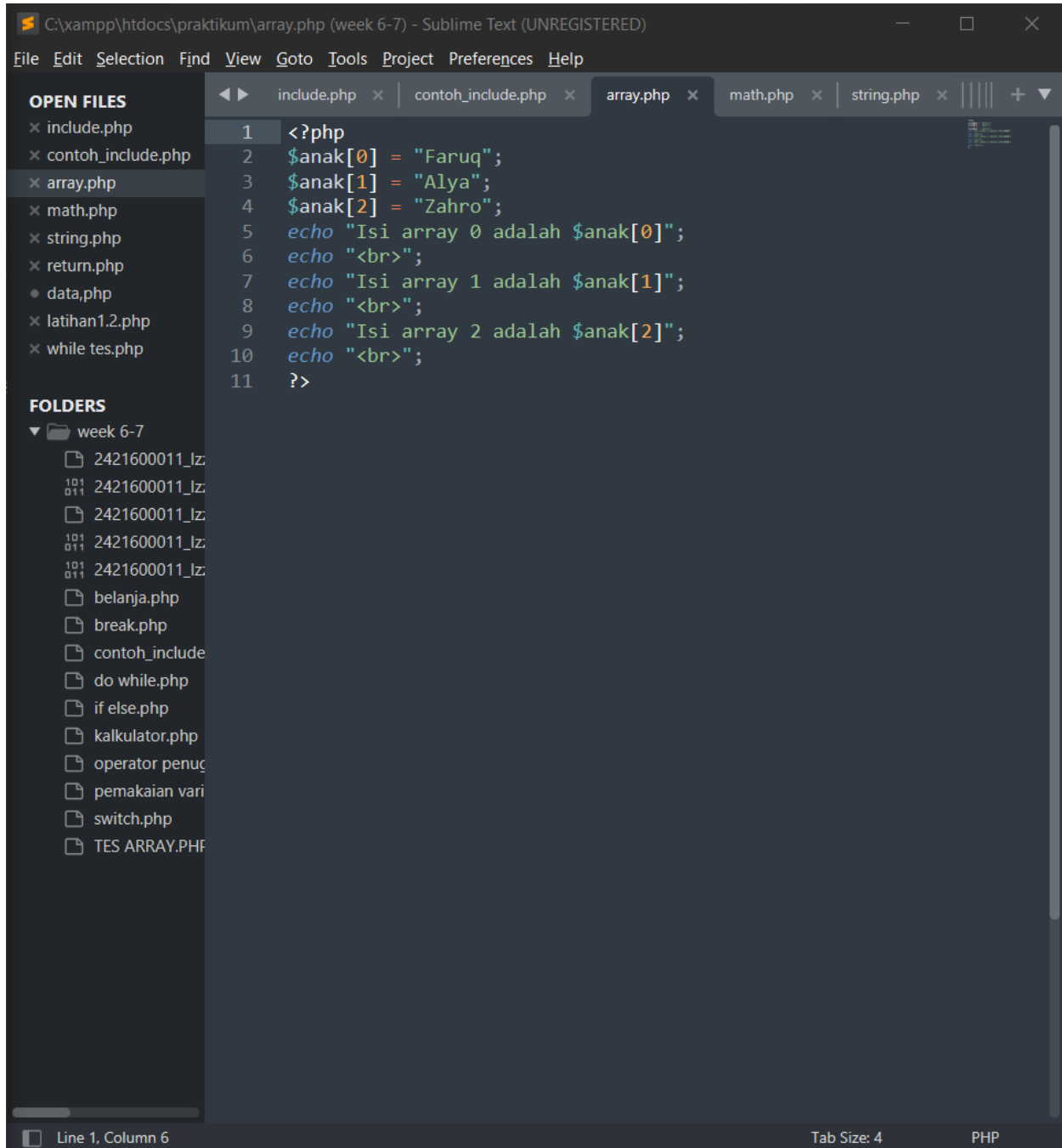
BAB II

ANALISA DAN KESIMPULAN

Hasil Praktikum

1. Array

Source code:

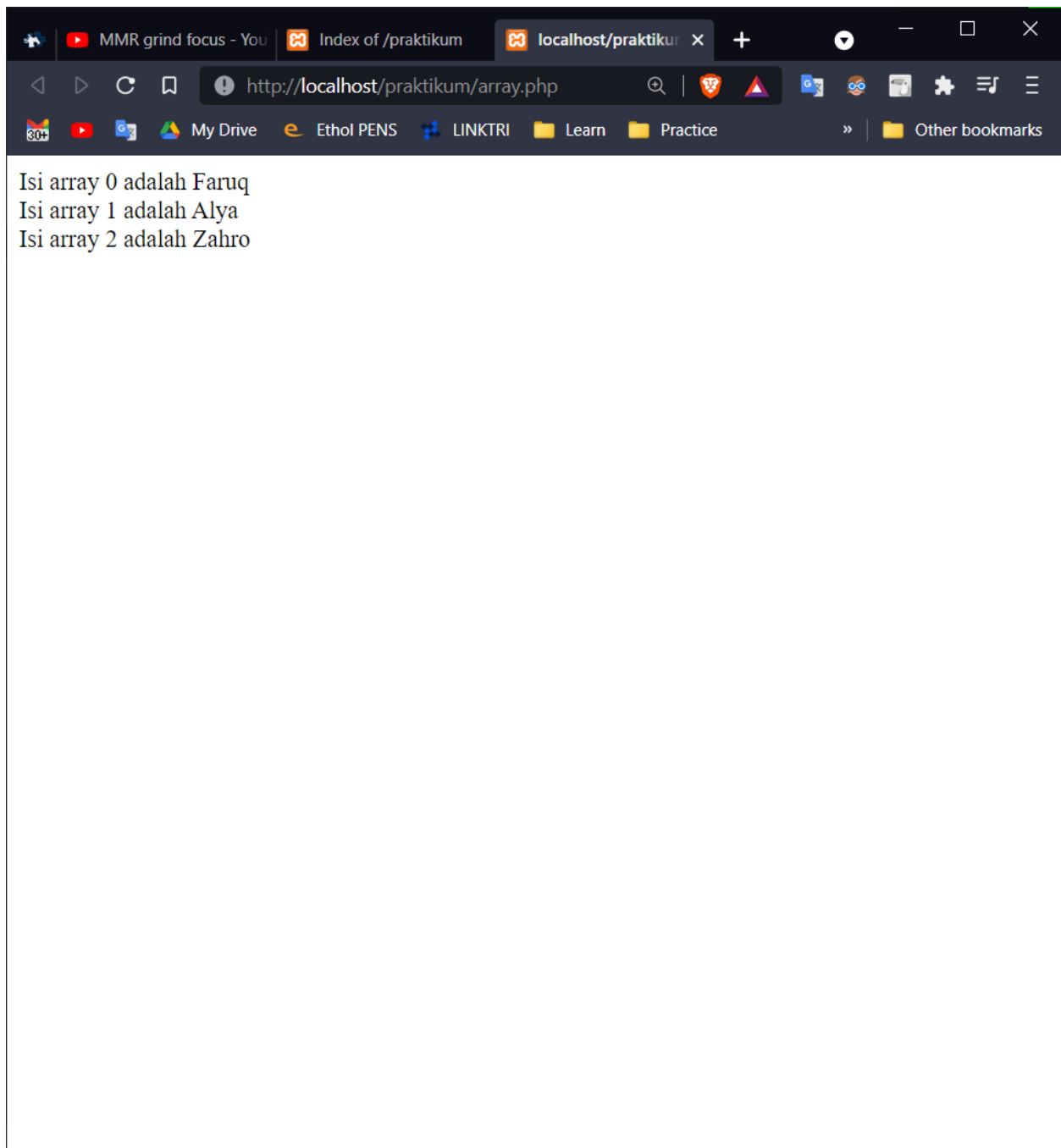


The screenshot shows a Sublime Text editor window titled "C:\xampp\htdocs\praktikum\array.php (week 6-7) - Sublime Text (UNREGISTERED)". The editor has a dark theme and displays a PHP script. The left sidebar shows a list of open files and folders. The main editor area shows the following code:

```
1 <?php
2 $anak[0] = "Faruq";
3 $anak[1] = "Alya";
4 $anak[2] = "Zahro";
5 echo "Isi array 0 adalah $anak[0]";
6 echo "<br>";
7 echo "Isi array 1 adalah $anak[1]";
8 echo "<br>";
9 echo "Isi array 2 adalah $anak[2]";
10 echo "<br>";
11 ?>
```

The status bar at the bottom indicates "Line 1, Column 6", "Tab Size: 4", and "PHP".

Result:



2. Built in math

Source code:

C:\xampp\htdocs\praktikum\math.php (week 6-7) - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- × include.php
- × contoh_include.php
- × array.php
- × math.php
- × string.php
- × return.php
- data.php
- × latihan1.2.php
- × while tes.php

FOLDERS

- ▼ week 6-7
 - 2421600011_Iz
 - 101 2421600011_Iz
 - 2421600011_Iz
 - 101 2421600011_Iz
 - 101 2421600011_Iz
 - belanja.php
 - break.php
 - contoh_include
 - do while.php
 - if else.php
 - kalkulator.php
 - operator penu
 - pemakaian vari
 - switch.php
 - TES ARRAY.PHP

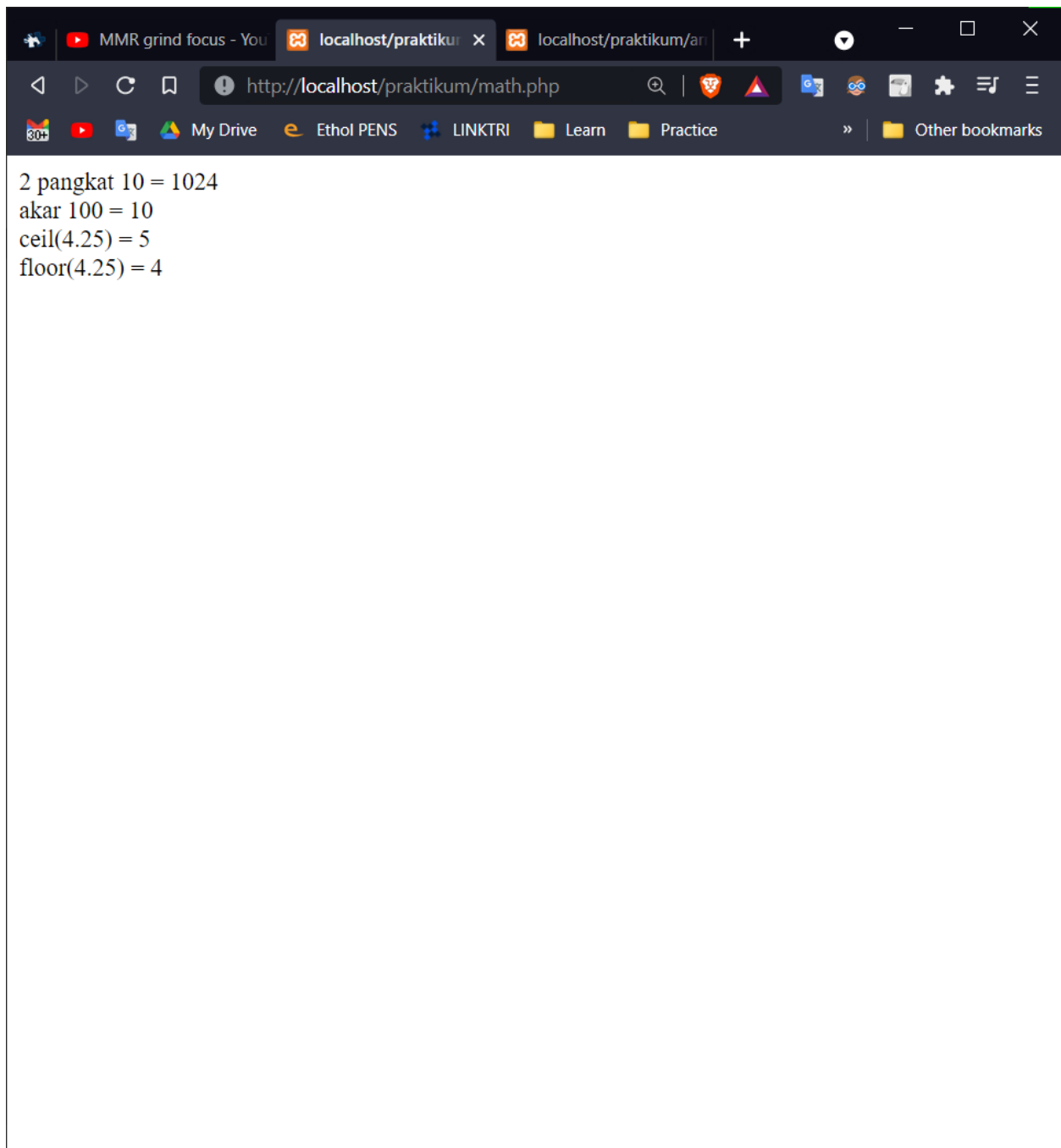
```
1 <?php
2 $a = pow(2,10); //Fungsi perpangkatan
3 $b = sqrt(100); //Fungsi akar
4 $c = ceil(4.25); //Pembulatan keatas
5 $d = floor(4.25); //Pembulatan kebawah
6 echo "2 pangkat 10 = $a <br>";
7 echo "akar 100 = $b <br>";
8 echo "ceil(4.25) = $c <br>";
9 echo "floor(4.25) = $d <br>";
10 ?>
```

Line 1, Column 6; File not found in open folders

Tab Size: 4

PHP

Result:



3. String

Source code:

C:\xampp\htdocs\praktikum\string.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

include.php x | contoh_include.php x | array.php x | math.php x | string.php x

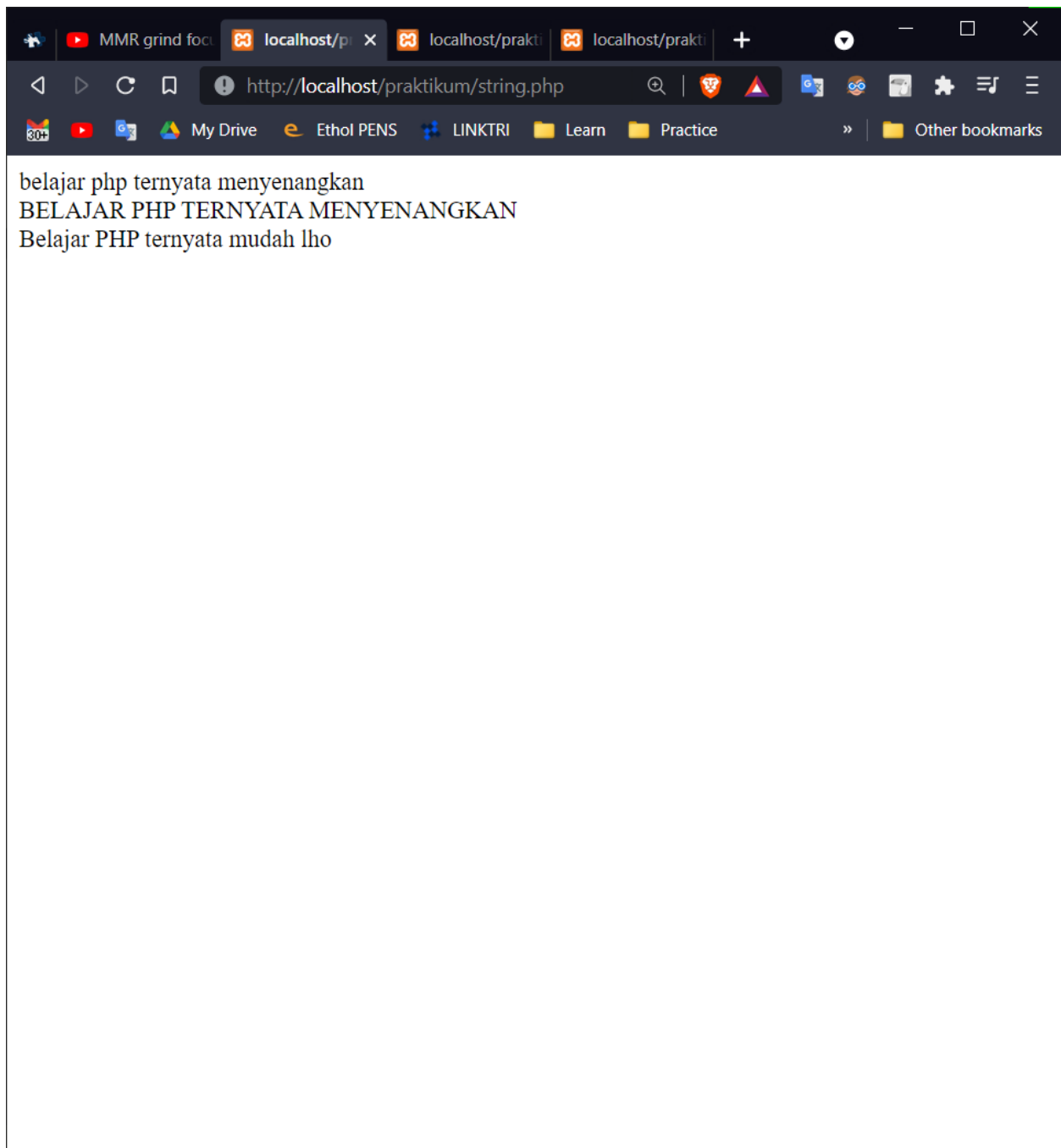
OPEN FILES

- x include.php
- x contoh_include.php
- x array.php
- x math.php
- x string.php
- x return.php
- data.php
- x latihan1.2.php
- x while tes.php

```
1 <?php
2 $str = "Belajar PHP ternyata Menyenangkan";
3 echo strtolower($str); //Ubah huruf ke kecil semua
4 echo "<br>";
5 echo strtoupper($str); //Ubah huruf ke besar semua
6 echo "<br>";
7 echo str_replace("Menyenangkan", "mudah lho", $str);
8 //Mengganti string
9 ?>
```

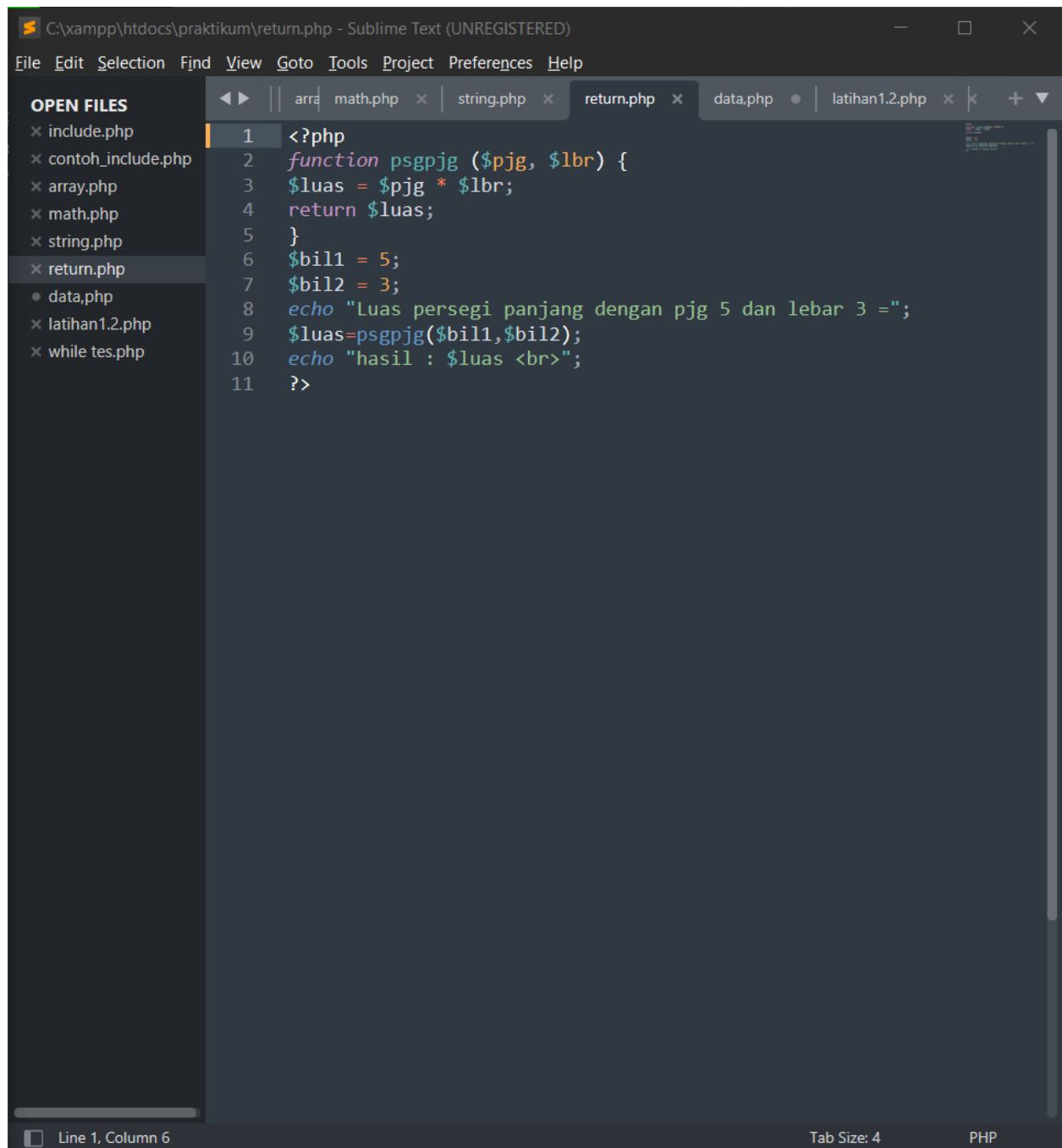
Line 1, Column 6 Tab Size: 4 PHP

Result:



4. Return value

Source code:



C:\xampp\htdocs\praktikum\return.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- × include.php
- × contoh_include.php
- × array.php
- × math.php
- × string.php
- × return.php
- data.php
- × latihan1.2.php
- × while tes.php

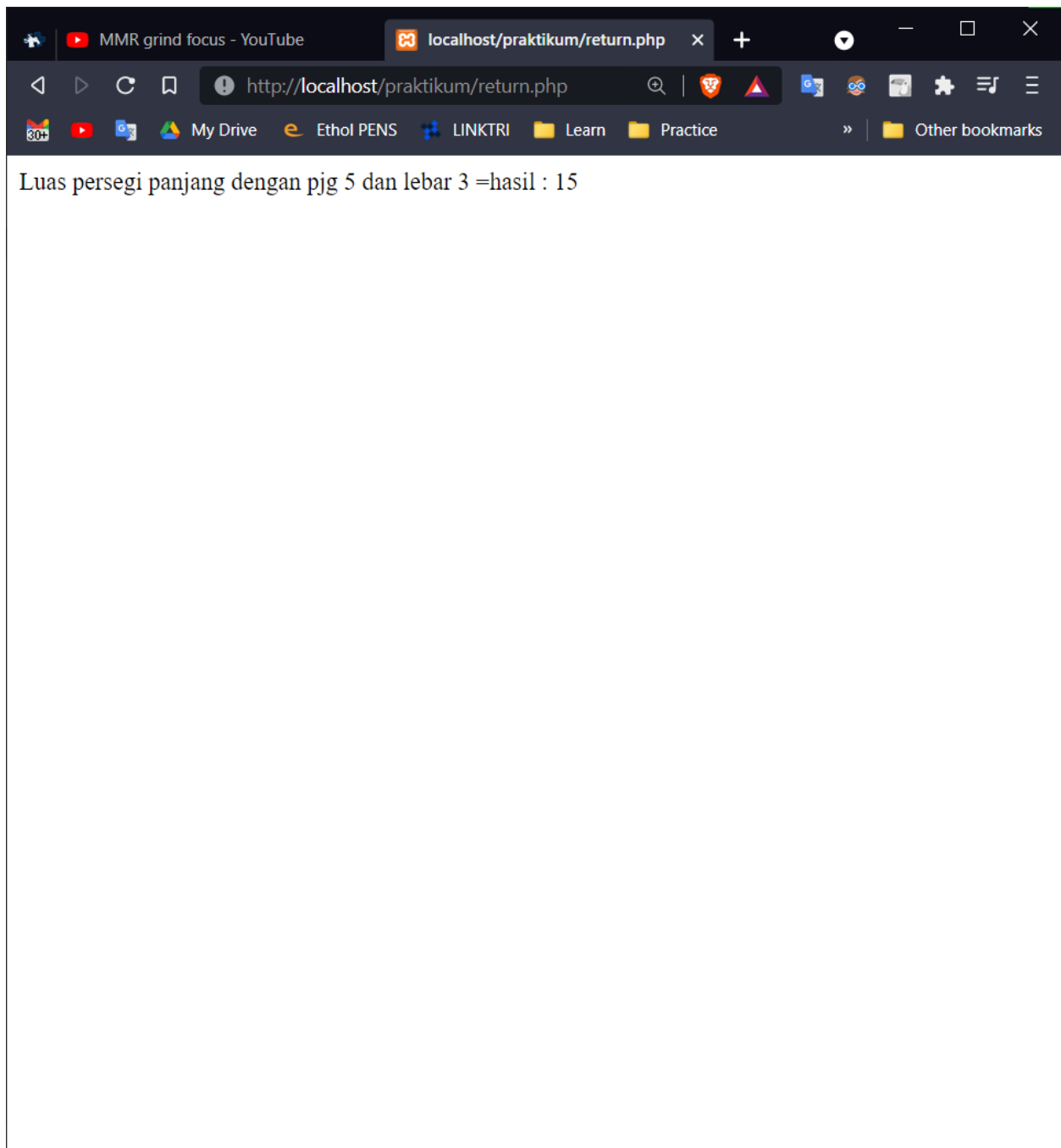
```
1 <?php
2 function psgpjg ($pjg, $lbr) {
3     $luas = $pjg * $lbr;
4     return $luas;
5 }
6 $bil1 = 5;
7 $bil2 = 3;
8 echo "Luas persegi panjang dengan pjg 5 dan lebar 3 =";
9 $luas=psgpjg($bil1,$bil2);
10 echo "hasil : $luas <br>";
11 ?>
```

Line 1, Column 6

Tab Size: 4

PHP

Result:



5. Modularisasi

Source code:

C:\xampp\htdocs\praktikum\include.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

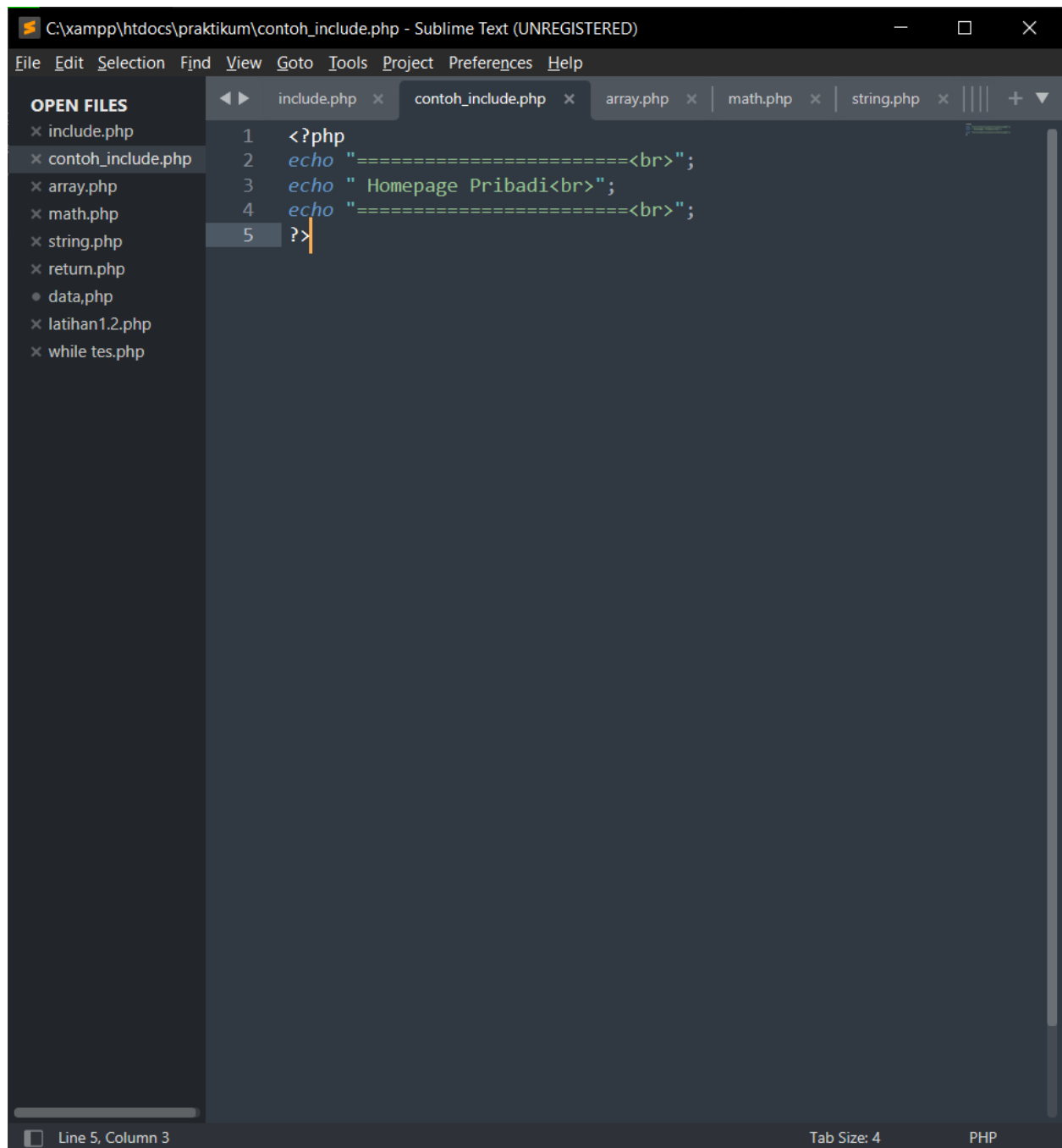
OPEN FILES

- × include.php
- × contoh_include.php
- × array.php
- × math.php
- × string.php
- × return.php
- data.php
- × latihan1.2.php
- × while tes.php

```
1 <?php
2 include("contoh_include.php");
3 echo "<br>";
4 echo "Ini di luar dari include";
5 ?>
```

Line 4, Column 32

Tab Size: 4 PHP

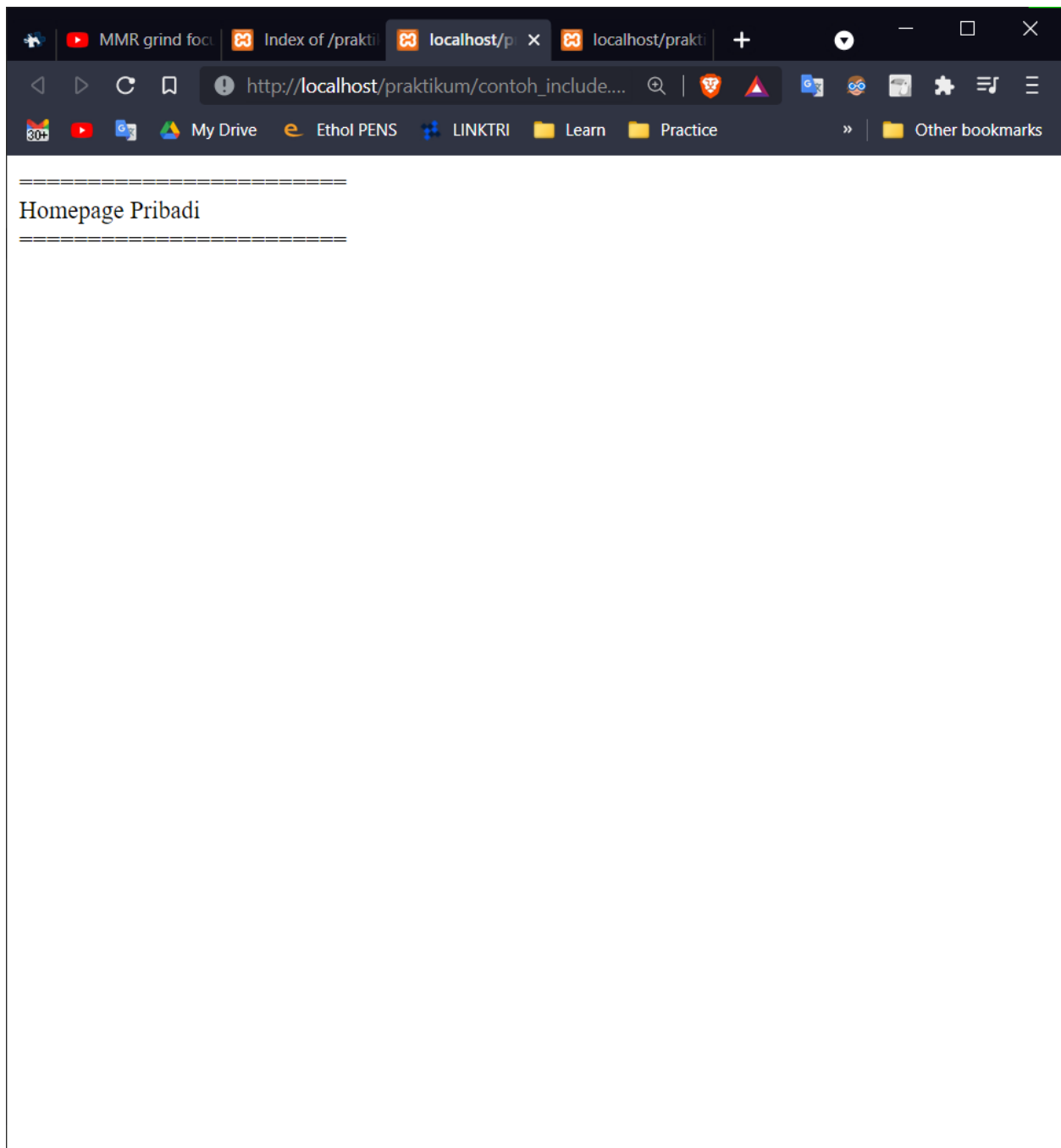


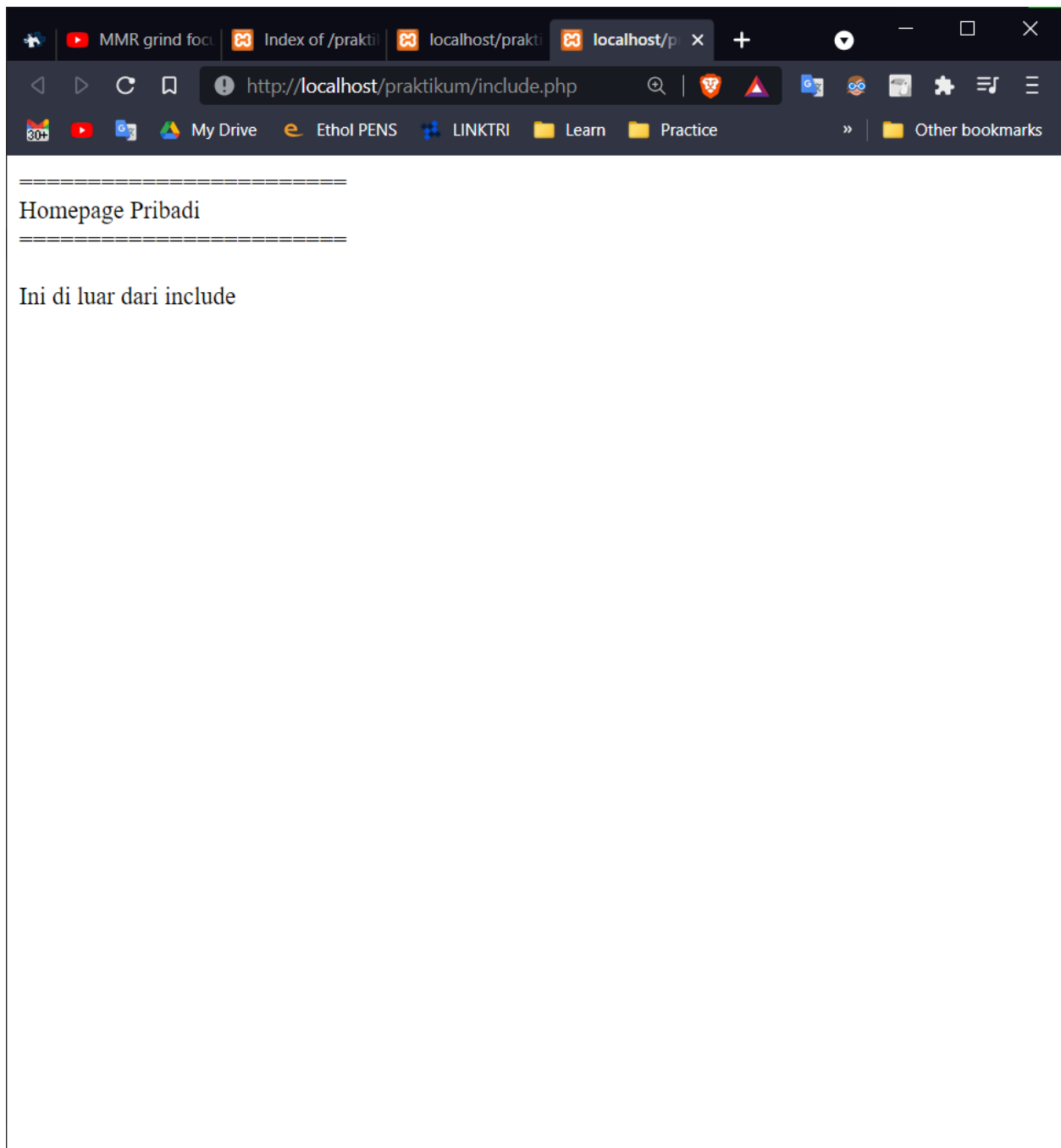
The screenshot shows the Sublime Text editor interface. The title bar indicates the file path is 'C:\xampp\htdocs\praktikum\contoh_include.php' and the application is 'Sublime Text (UNREGISTERED)'. The menu bar includes 'File', 'Edit', 'Selection', 'Find', 'View', 'Goto', 'Tools', 'Project', 'Preferences', and 'Help'. On the left, the 'OPEN FILES' sidebar lists several files: 'include.php', 'contoh_include.php' (selected), 'array.php', 'math.php', 'string.php', 'return.php', 'data.php', 'latihan1.2.php', and 'while tes.php'. The main editor area displays the content of 'contoh_include.php' with line numbers 1 through 5. The code is as follows:

```
1 <?php
2 echo "=====<br>";
3 echo " Homepage Pribadi<br>";
4 echo "=====<br>";
5 ?>
```

The status bar at the bottom shows 'Line 5, Column 3', 'Tab Size: 4', and 'PHP'.

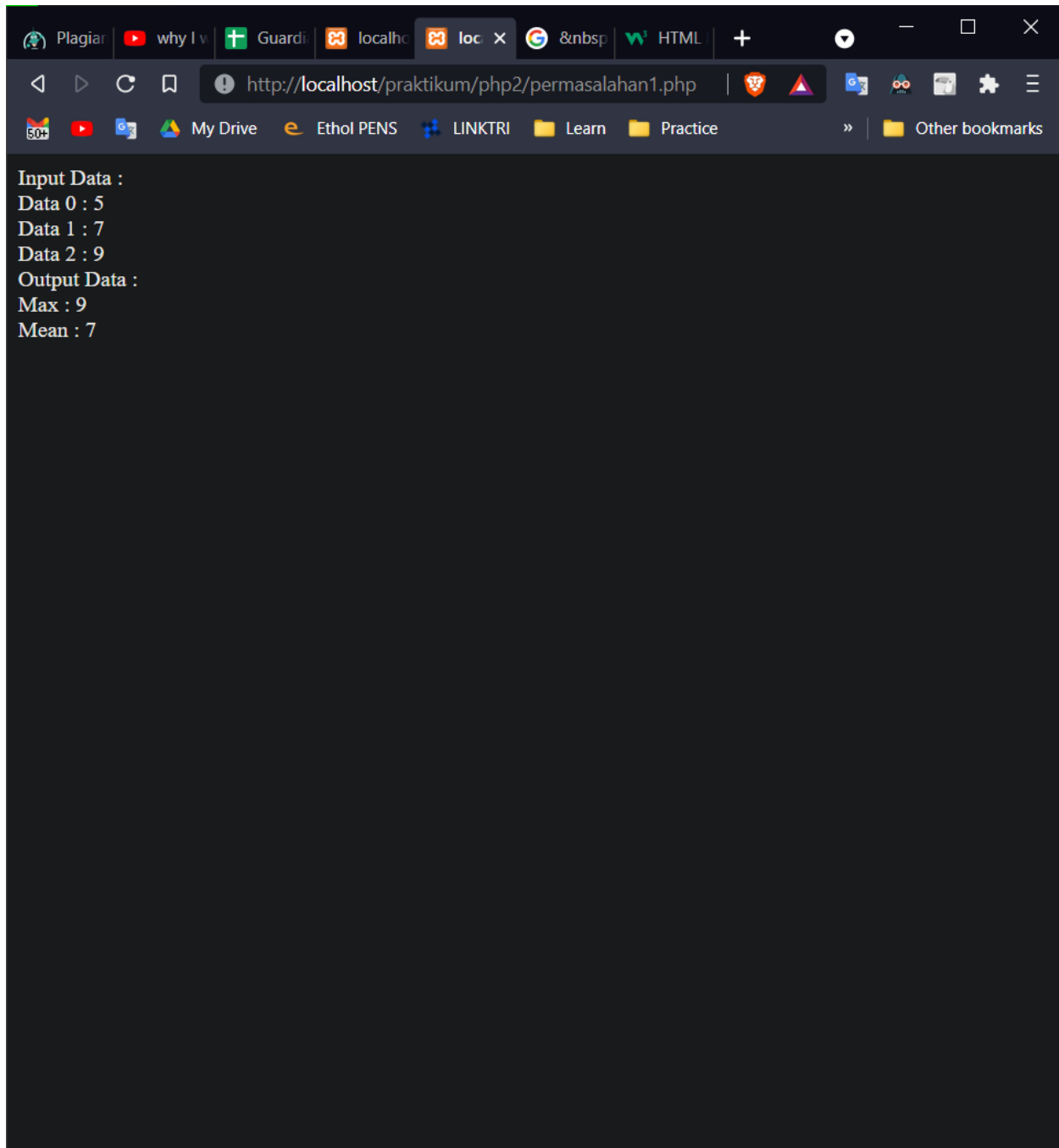
Result:





PERMASALAHAN-PERMASALAHAN:

1. Nilai max dan mean:
hasil:



The screenshot shows a web browser window with the address bar displaying `http://localhost/praktikum/php2/permasalahan1.php`. The browser's tab bar includes several tabs, with the active one labeled "loc x". The browser's bookmark bar shows links to "My Drive", "Ethol PENS", "LINKTRI", "Learn", "Practice", and "Other bookmarks". The main content area of the browser displays the output of a PHP script, which is as follows:

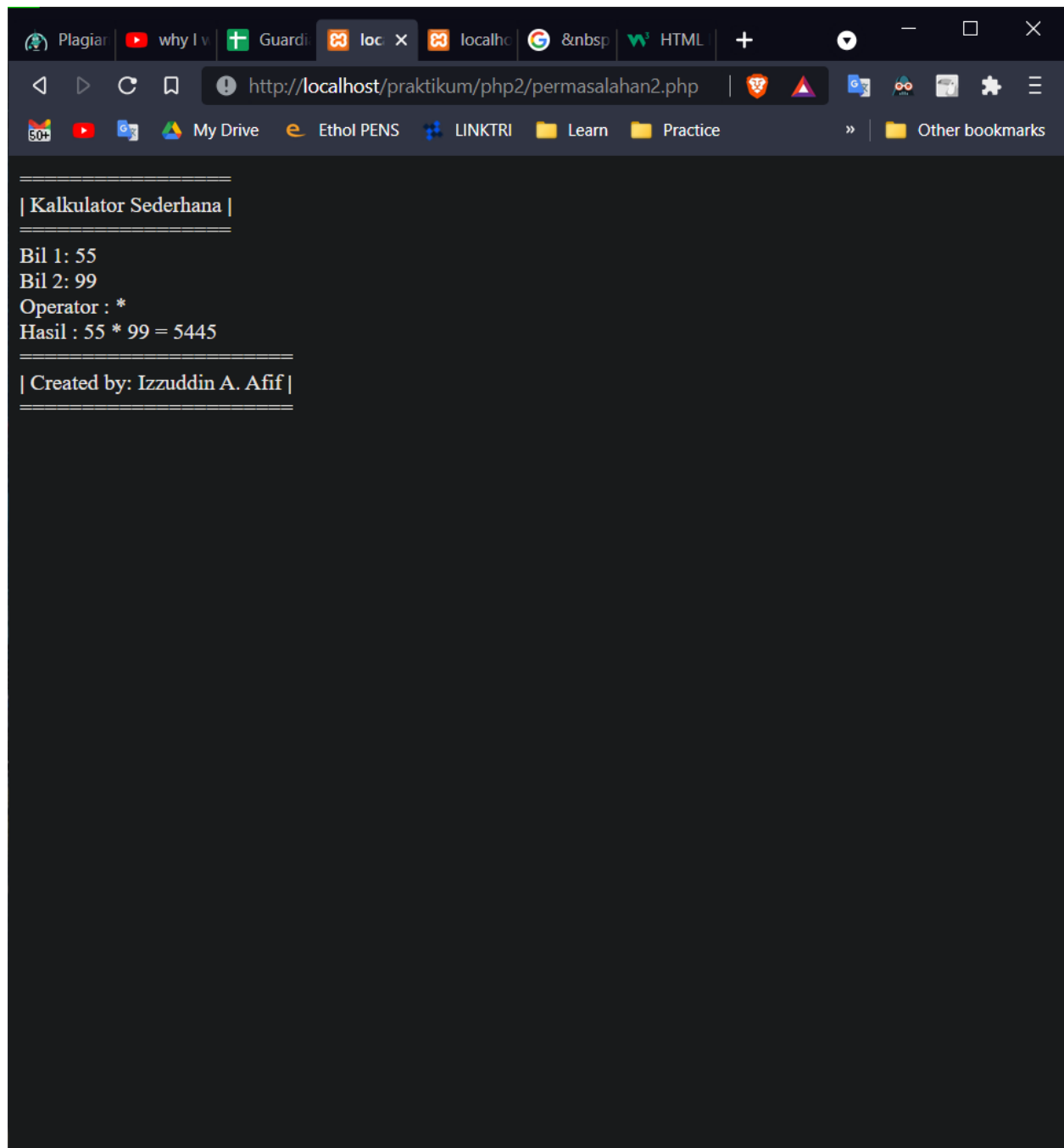
```
Input Data :  
Data 0 : 5  
Data 1 : 7  
Data 2 : 9  
Output Data :  
Max : 9  
Mean : 7
```

Source code:

The screenshot shows a Sublime Text editor window with the title bar "C:\xampp\htdocs\praktikum\php2\permasalahan1.php - Sublime Text (UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The "OPEN FILES" sidebar on the left lists "untitled", "permasalahan1.php", "permasalahan2.php", and "penjumlahan matriks.". The main editor area displays a PHP script with line numbers 1 through 29. The script defines an array, calculates its count, and uses two custom functions, 'maxx' and 'mean', to find the maximum and mean values. It then echoes the input data, the calculated maximum, and the mean. The status bar at the bottom indicates "Line 1, Column 1", "Tab Size: 4", and "PHP".

```
1 <?php
2 $data=array(5,7,9);
3 $n=count($data);
4 $max;
5 $mean;
6 $i=0;
7 function maxx($data, $n){
8     $max=$data[0];
9     for($i=0;$i<$n;$i++){
10         if($max<$data[$i])
11             $max=$data[$i];
12     }
13     return $max;
14 }
15 function mean($data, $n){
16     $total=0;
17     for($i=0;$i<$n;$i++){
18         $total+=$data[$i];
19     }
20     $mean=$total/$n;
21     return $mean;
22 }
23 echo "Input Data :<br>";
24 for($i;$i<$n;$i++)
25     echo "Data $i : $data[$i]<br>";
26 echo "Output Data :<br>";
27 echo "Max : ".$max=maxx($data, $n)."<br>";
28 echo "Mean : ".$mean=mean($data, $n);
29 ?>
```

2. Kalkulator sederhana:
Hasil:



Source code:

C:\xampp\htdocs\praktikum\php2\footer.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

per | permasalahan2.php x footer.php x header.php x penjumlahan matriks.php x + ▼

OPEN FILES

- untitled
- x permasalahan1.php
- x permasalahan2.php
- x footer.php
- x header.php
- x penjumlahan matriks.

```
1 k?php
2 echo "=====  
>";
3 echo "<b>|</b> Created by: Izzuddin A. Afif <
  b>|</b><br>";
4 echo "=====  
>";
5 ?>
```

C:\xampp\htdocs\praktikum\php2\header.php - Sublime Text (UNREGISTERED)

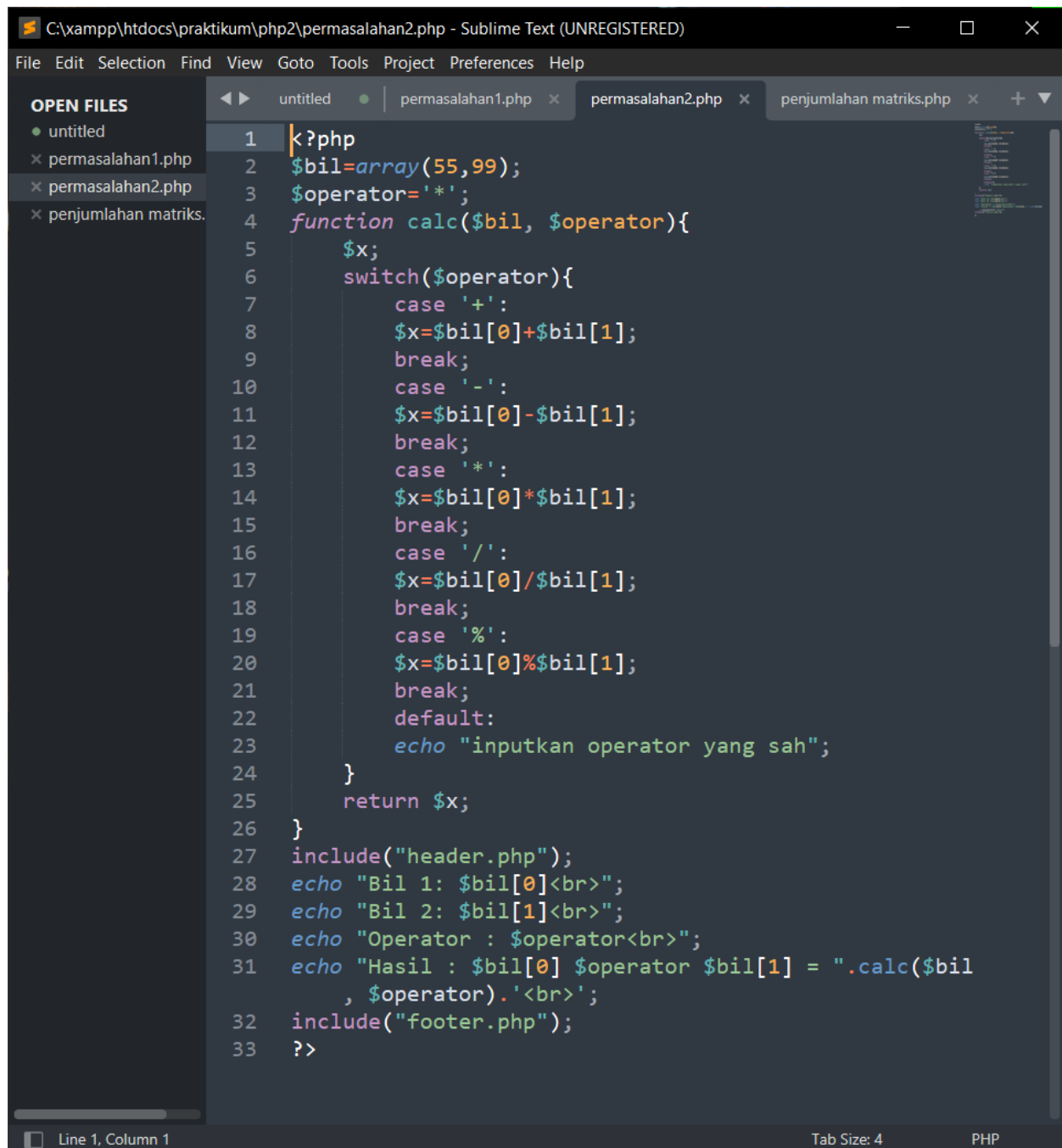
File Edit Selection Find View Goto Tools Project Preferences Help

per | permasalahan2.php x footer.php x header.php x penjumlahan matriks.php x + ▼

OPEN FILES

- untitled
- x permasalahan1.php
- x permasalahan2.php
- x footer.php
- x header.php
- x penjumlahan matriks.

```
1 k?php
2 echo "=====  
>";
3 echo "<b>|</b> Kalkulator Sederhana <b>|</b><br>";
4 echo "=====  
>";
5 ?>
```



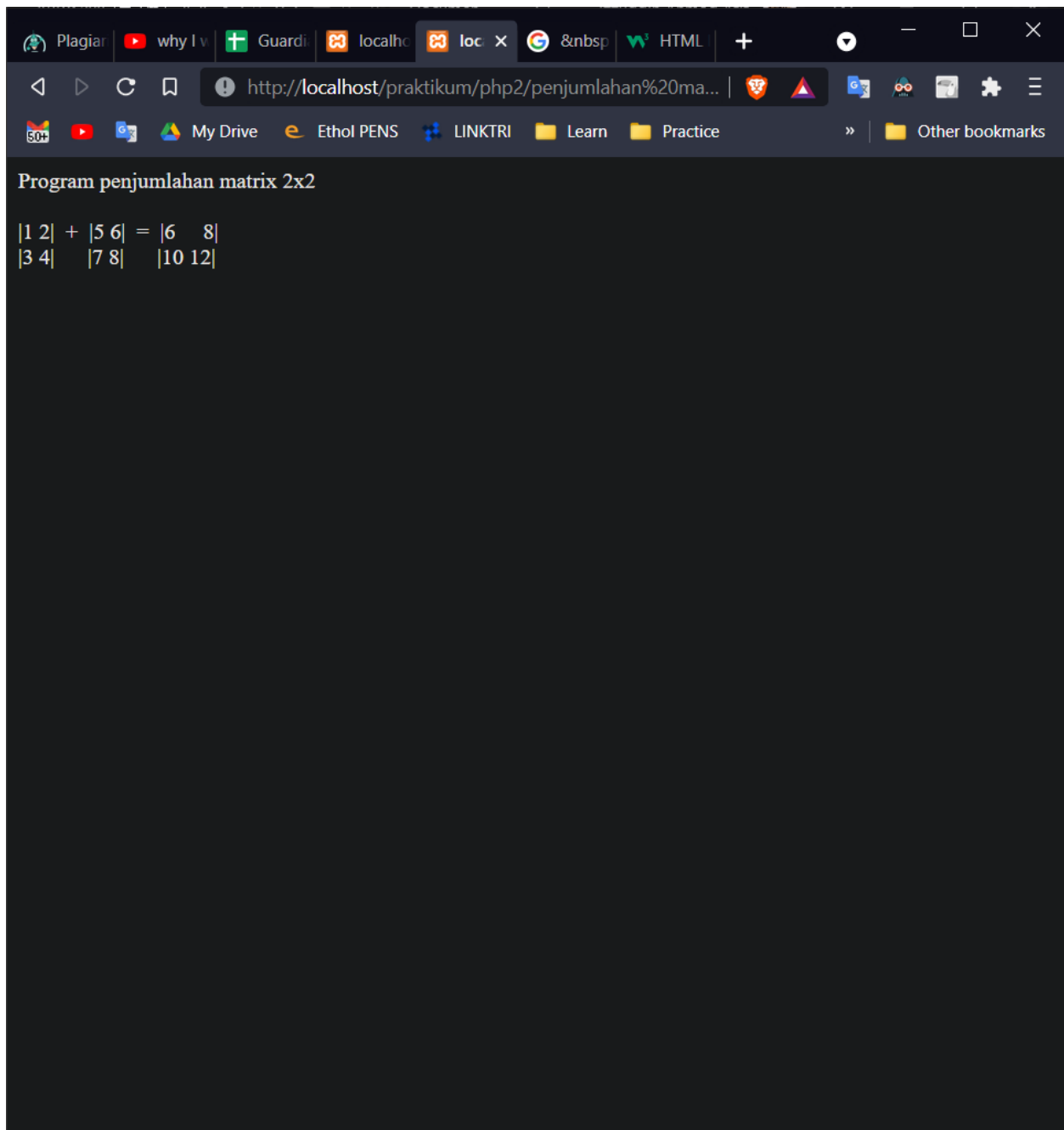
```
C:\xampp\htdocs\praktikum\php2\permasalahan2.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES
  untitled
  permasalahan1.php
  permasalahan2.php
  penjumlahan matriks.

1 | k?php
2 | $bil=array(55,99);
3 | $operator='*';
4 | function calc($bil, $operator){
5 |     $x;
6 |     switch($operator){
7 |         case '+':
8 |             $x=$bil[0]+$bil[1];
9 |             break;
10 |        case '-':
11 |            $x=$bil[0]-$bil[1];
12 |            break;
13 |        case '*':
14 |            $x=$bil[0]*$bil[1];
15 |            break;
16 |        case '/':
17 |            $x=$bil[0]/$bil[1];
18 |            break;
19 |        case '%':
20 |            $x=$bil[0]%%$bil[1];
21 |            break;
22 |        default:
23 |            echo "inputkan operator yang sah";
24 |        }
25 |        return $x;
26 |    }
27 |    include("header.php");
28 |    echo "Bil 1: $bil[0]<br>";
29 |    echo "Bil 2: $bil[1]<br>";
30 |    echo "Operator : $operator<br>";
31 |    echo "Hasil : $bil[0] $operator $bil[1] = ".calc($bil
32 |        , $operator). '<br>';
33 |    include("footer.php");
34 |    ?>
```

Line 1, Column 1 Tab Size: 4 PHP

3. Penjumlahan Matrix 2x2:
Hasil:



Source code:

C:\xampp\htdocs\praktikum\php2\penjumlahan matriks.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

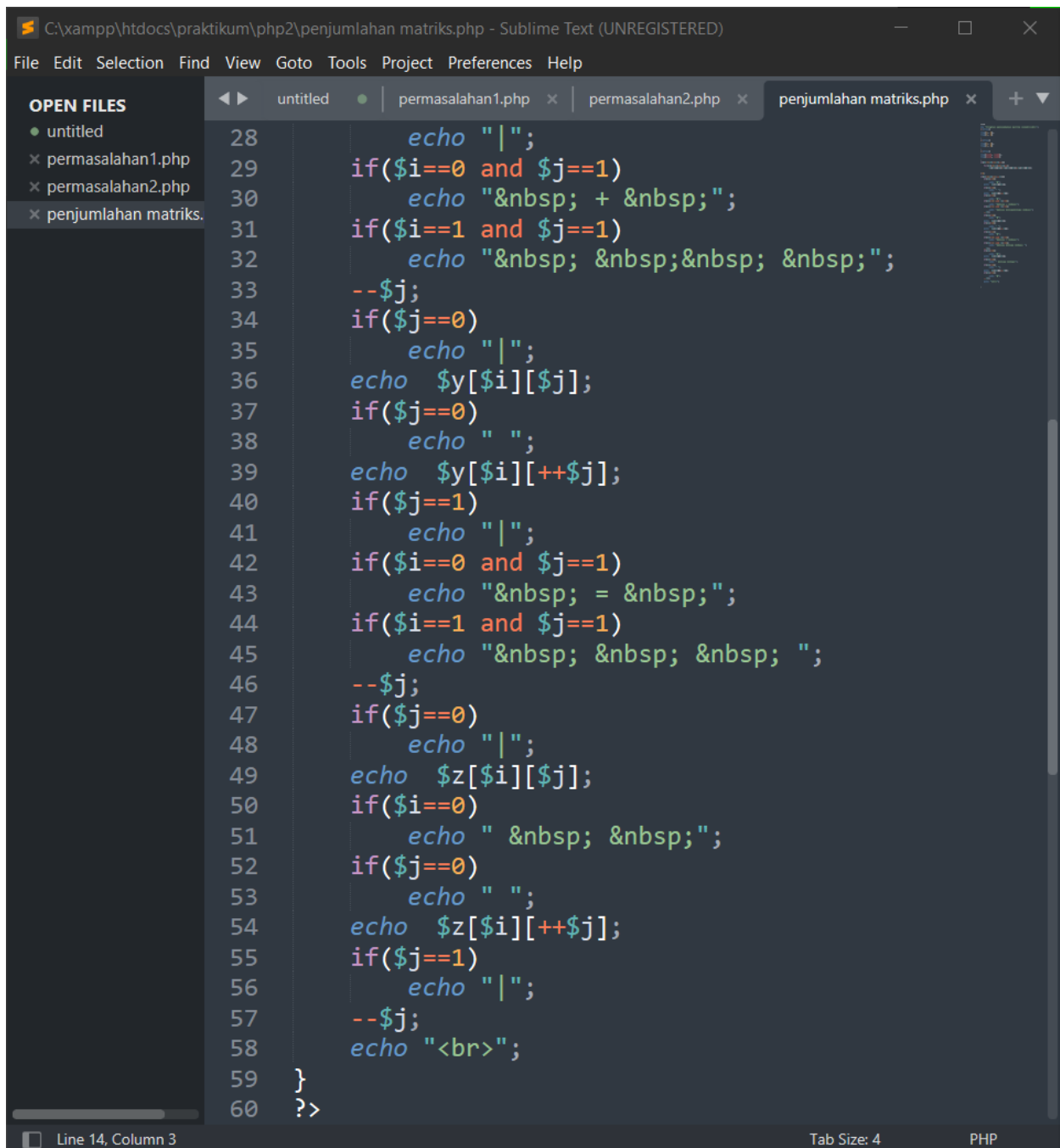
OPEN FILES

- untitled
- permasalahan1.php
- permasalahan2.php
- penjumlahan matriks.

```
1 <?php
2 echo "Program penjumlahan matrix 2x2<br><br>";
3 $x=array(
4     array(1, 2),
5     array(3, 4)
6 );
7 $y=array(
8     array(5, 6),
9     array(7, 8)
10 );
11 $z=array(
12     array(null, null),
13     array(null, null)
14 );
15 for($i=0;$i<2;$i++){
16     for($j=0;$j<2;$j++){
17         $z[$i][$j]=$x[$i][$j]+$y[$i][$j];
18     }
19     $j=0;
20     for($i=0;$i<2;++$i){
21         if($j==0)
22             echo "|";
23         echo $x[$i][$j];
24         if($j==0)
25             echo " ";
26         echo $x[$i][++$j];
27         if($j==1)
28             echo "|";
29         if($i==0 and $j==1)
30             echo "&nbsp; + &nbsp;";
31         if($i==1 and $j==1)
32             echo "&nbsp; &nbsp;&nbsp; &nbsp;";
33         --$j;
```

Line 14, Column 3

Tab Size: 4 PHP



```
C:\xampp\htdocs\praktikum\php2\penjumlahan matriks.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES
• untitled
× permasalahan1.php
× permasalahan2.php
× penjumlahan matriks.

28      echo "|";
29      if($i==0 and $j==1)
30          echo "  +  ";
31      if($i==1 and $j==1)
32          echo "         ";
33      --$j;
34      if($j==0)
35          echo "|";
36      echo $y[$i][$j];
37      if($j==0)
38          echo " ";
39      echo $y[$i][++$j];
40      if($j==1)
41          echo "|";
42      if($i==0 and $j==1)
43          echo "  =  ";
44      if($i==1 and $j==1)
45          echo "         ";
46      --$j;
47      if($j==0)
48          echo "|";
49      echo $z[$i][$j];
50      if($i==0)
51          echo "      ";
52      if($j==0)
53          echo " ";
54      echo $z[$i][++$j];
55      if($j==1)
56          echo "|";
57      --$j;
58      echo "<br>";
59  }
60  ?>
```

Line 14, Column 3 Tab Size: 4 PHP

Analisa Praktikum

Dalam praktikum kali ini, kita mempelajari lebih dalam tentang Sintaks-sintaks PHP dan kita menerapkan aplikasinya dengan mengerjakan permasalahan-permasalahan yang ada.

Kesimpulan

1. Kita dapat mengetahui lebih dalam tentang string, array, loop, function dan decision dalam PHP.
2. Kita dapat melakukan modularisasi dalam PHP.

