

**LAPORAN PRAKTIKUM 1**  
**PEMROGRAMAN WEB**  
**STRUKTUR KONTROL DAN PERULANGAN DALAM PHP**



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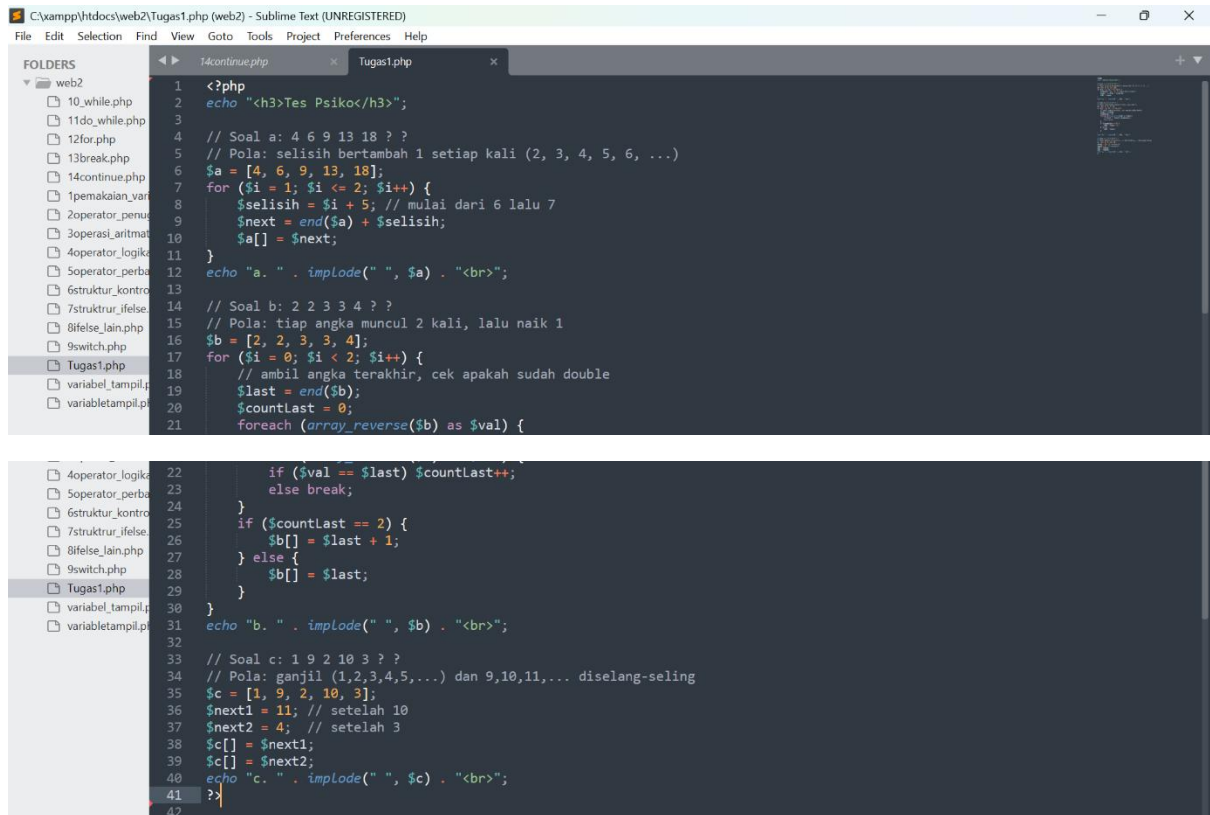
**PROGRAM STUDI D3 TEKNIK INFORMATIKA**

**POLITEKNIK PURBAYA**

**2024/2025**

# TUGAS

## INPUT



```
1 <?php
2 echo "<h3>Tes Psiko</h3>";
3
4 // Soal a: 4 6 9 13 18 ? ?
5 // Pola: selisih bertambah 1 setiap kali (2, 3, 4, 5, 6, ...)
6 $a = [4, 6, 9, 13, 18];
7 for ($i = 1; $i <= 2; $i++) {
8     $selisih = $i + 5; // mulai dari 6 lalu 7
9     $next = end($a) + $selisih;
10    $a[] = $next;
11 }
12 echo "a. " . implode(" ", $a) . "<br>";
13
14 // Soal b: 2 2 3 3 4 ? ?
15 // Pola: tiap angka muncul 2 kali, lalu naik 1
16 $b = [2, 2, 3, 3, 4];
17 for ($i = 0; $i < 2; $i++) {
18     // ambil angka terakhir, cek apakah sudah double
19     $last = end($b);
20     $countLast = 0;
21     foreach (array_reverse($b) as $val) {
22         if ($val == $last) $countLast++;
23         else break;
24     }
25     if ($countLast == 2) {
26         $b[] = $last + 1;
27     } else {
28         $b[] = $last;
29     }
30 }
31 echo "b. " . implode(" ", $b) . "<br>";
32
33 // Soal c: 1 9 2 10 3 ? ?
34 // Pola: ganjil (1,2,3,4,5,...) dan 9,10,11,... diselang-seling
35 $c = [1, 9, 2, 10, 3];
36 $next1 = 11; // setelah 10
37 $next2 = 4; // setelah 3
38 $c[] = $next1;
39 $c[] = $next2;
40 echo "c. " . implode(" ", $c) . "<br>";
41 ?>
```

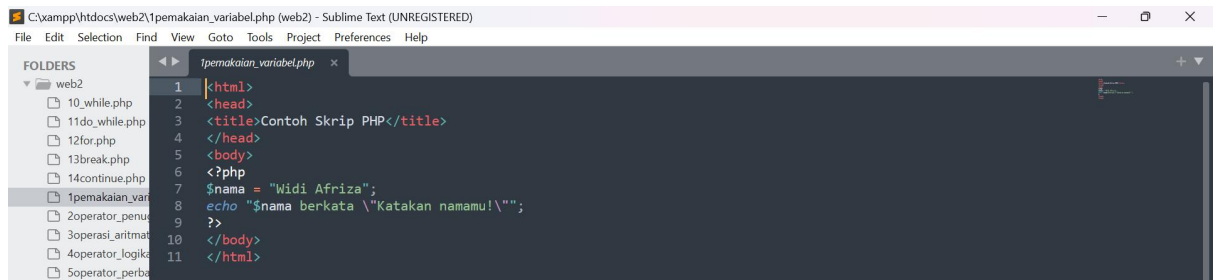
## OUTPUT



# LATIHAN

## 1. Pemakaian Variabel

### INPUT




```
1 <html>
2 <head>
3 <title>Contoh Skrip PHP</title>
4 </head>
5 <body>
6 <?php
7 $nama = "Widi Afriza";
8 echo "$nama berkata \"Katakan namamu!\"";
9 ?>
10 </body>
11 </html>
```

### OUTPUT



## 2. Operator Penugasan

### INPUT



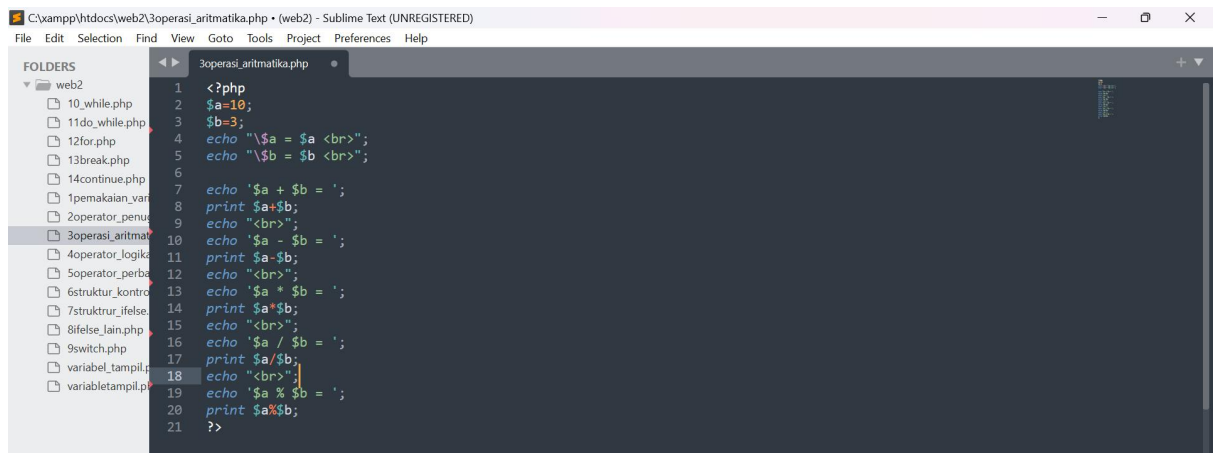
```
1 <?php
2 $a = 3;
3 $b = 7;
4 $a += 5;
5 $b = ($c = 11) + 3;
6
7 echo "Nilai variabel a adalah = $a";
8 echo "<br>";
9 echo "Nilai variabel b adalah = $b";
10 echo "<br>";
11 echo "Nilai variabel c adalah = $c";
12 ?>
```

### OUTPUT



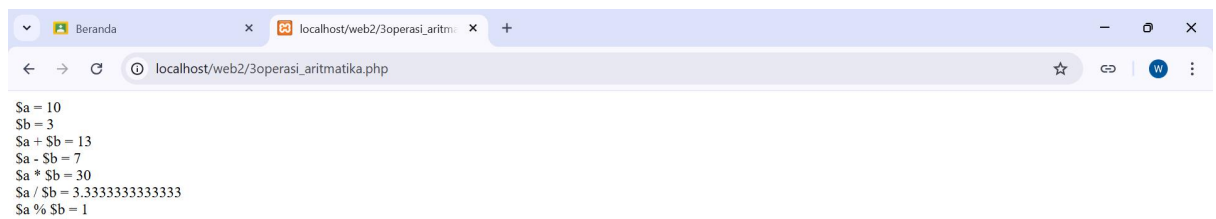
## 3. Operasi Aritmatika

### INPUT



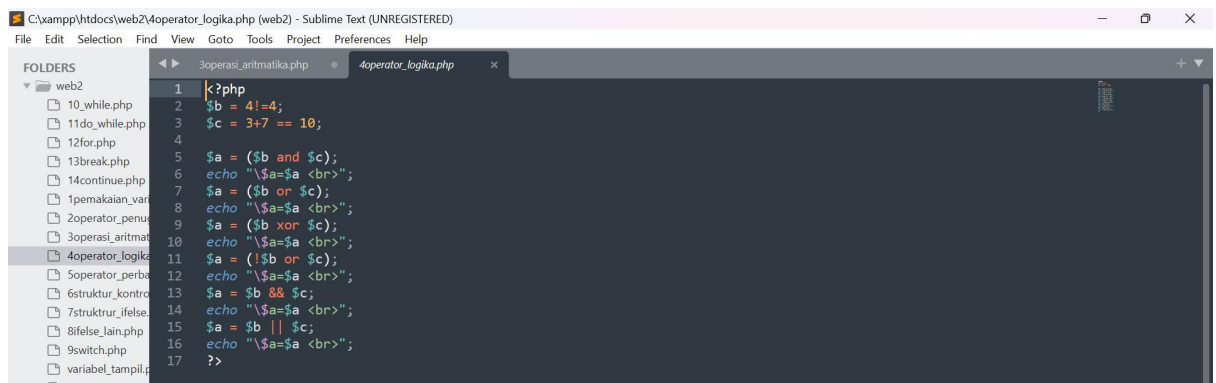
```
1 <?php
2 $a=10;
3 $b=3;
4 echo "\$a = $a <br>";
5 echo "\$b = $b <br>";
6
7 echo '$a + $b = ';
8 print $a+$b;
9 echo "<br>";
10 echo '$a - $b = ';
11 print $a-$b;
12 echo "<br>";
13 echo '$a * $b = ';
14 print $a*$b;
15 echo "<br>";
16 echo '$a / $b = ';
17 print $a/$b;
18 echo "<br>";
19 echo '$a % $b = ';
20 print $a%$b;
21 ?>
```

## OUTPUT



## 4. Operator Logika

### INPUT



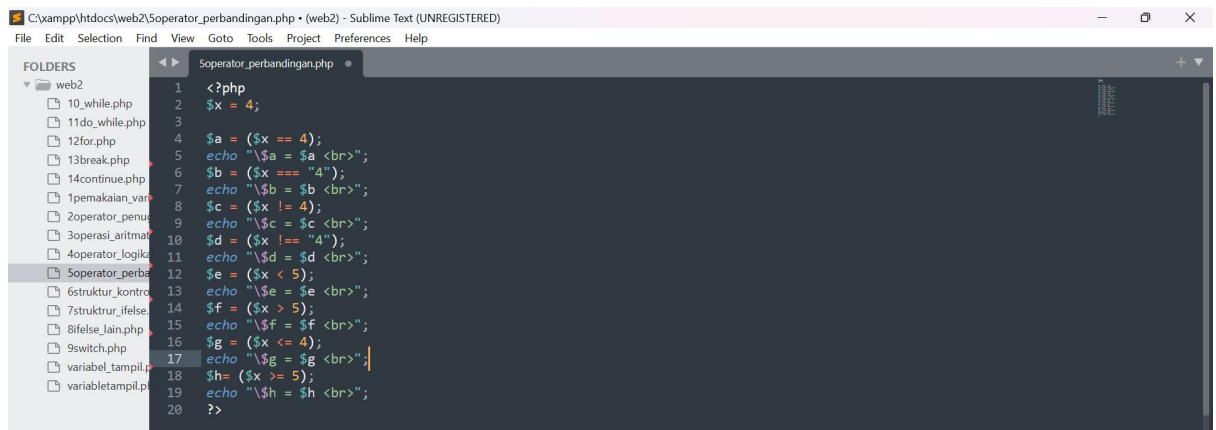
```
1 <?php
2 $b = 4!=4;
3 $c = 3+7 == 10;
4
5 $a = ($b and $c);
6 echo "\$a=$a <br>";
7 $a = ($b or $c);
8 echo "\$a=$a <br>";
9 $a = ($b xor $c);
10 echo "\$a=$a <br>";
11 $a = (!$b or $c);
12 echo "\$a=$a <br>";
13 $a = $b && $c;
14 echo "\$a=$a <br>";
15 $a = $b || $c;
16 echo "\$a=$a <br>";
17 ?>
```

## OUTPUT



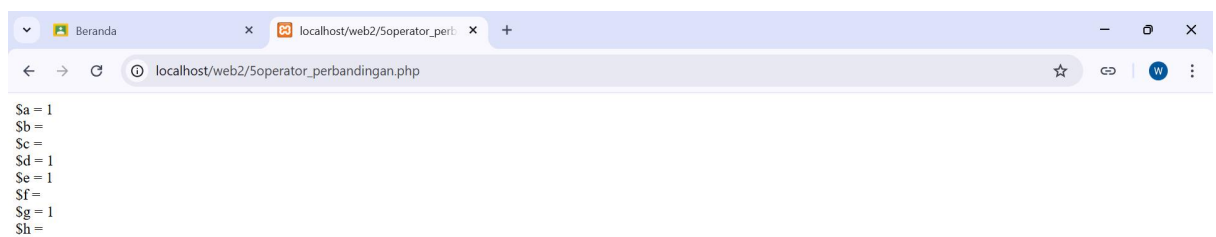
## 5. Operator Perbandingan

### INPUT



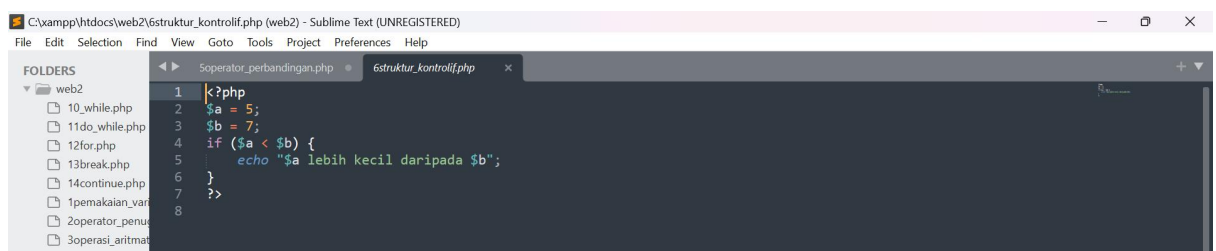
```
1 <?php
2 $x = 4;
3
4 $a = ($x == 4);
5 echo "\$a = $a <br>";
6 $b = ($x === "4");
7 echo "\$b = $b <br>";
8 $c = ($x != 4);
9 echo "\$c = $c <br>";
10 $d = ($x !== "4");
11 echo "\$d = $d <br>";
12 $e = ($x < 5);
13 echo "\$e = $e <br>";
14 $f = ($x > 5);
15 echo "\$f = $f <br>";
16 $g = ($x <= 4);
17 echo "\$g = $g <br>";
18 $h = ($x >= 5);
19 echo "\$h = $h <br>";
20 ?>
```

## OUTPUT



## 6. Struktur Kontrol : if

### INPUT



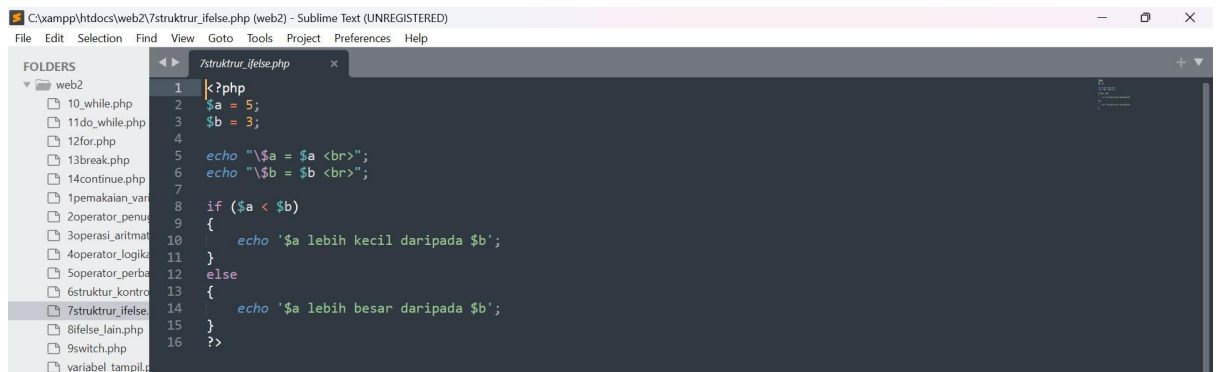
```
1 <?php
2 $a = 5;
3 $b = 7;
4 if ($a < $b) {
5     echo "$a lebih kecil daripada $b";
6 }
7 ?>
```

## OUTPUT



## 7. Struktur Kontrol : if-else

### INPUT



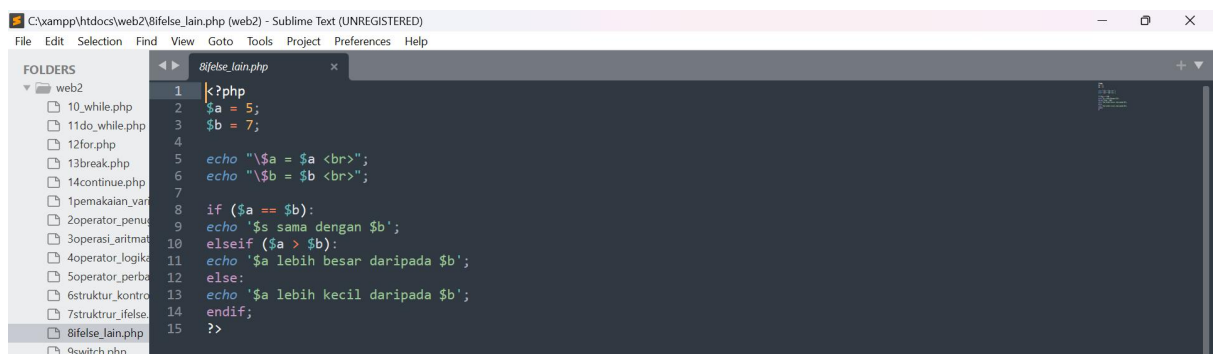
```
1 <?php
2 $a = 5;
3 $b = 3;
4
5 echo "\$a = $a <br>";
6 echo "\$b = $b <br>";
7
8 if ($a < $b)
9 {
10     echo '$a lebih kecil daripada $b';
11 }
12 else
13 {
14     echo '$a lebih besar daripada $b';
15 }
16 ?>
```

## OUTPUT



## 8. Struktur Kontrol : if-else yang lain

### INPUT



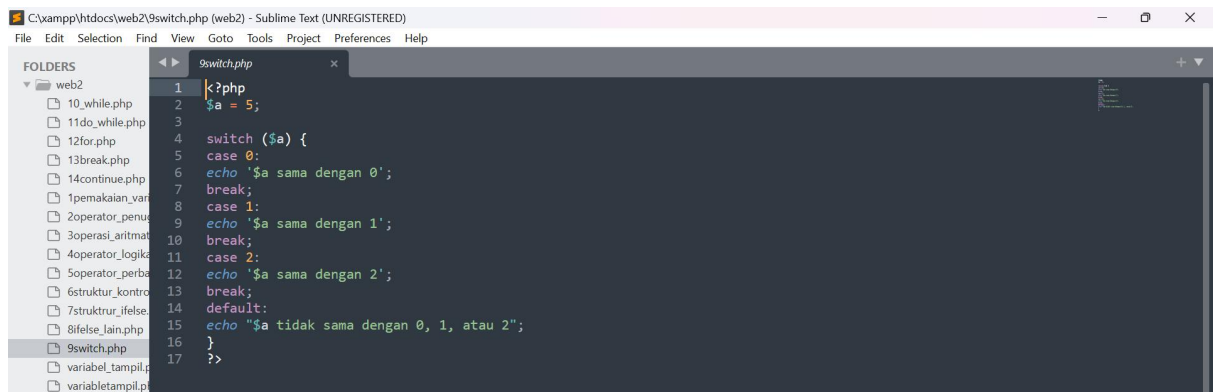
```
1 <?php
2 $a = 5;
3 $b = 7;
4
5 echo "\$a = $a <br>";
6 echo "\$b = $b <br>";
7
8 if ($a == $b):
9     echo '$s sama dengan $b';
10 elseif ($a > $b):
11     echo '$a lebih besar daripada $b';
12 else:
13     echo '$a lebih kecil daripada $b';
14 endif;
15 ?>
```

## OUTPUT



## 9. Struktur Kontrol : switch

### INPUT



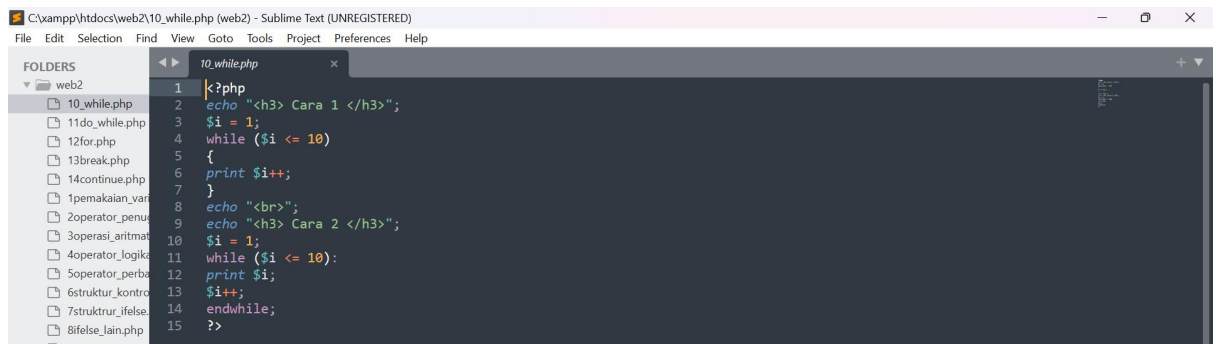
```
1 <?php
2 $a = 5;
3
4 switch ($a) {
5 case 0:
6 echo '$a sama dengan 0';
7 break;
8 case 1:
9 echo '$a sama dengan 1';
10 break;
11 case 2:
12 echo '$a sama dengan 2';
13 break;
14 default:
15 echo '$a tidak sama dengan 0, 1, atau 2';
16 }
17 ?>
```

## OUTPUT



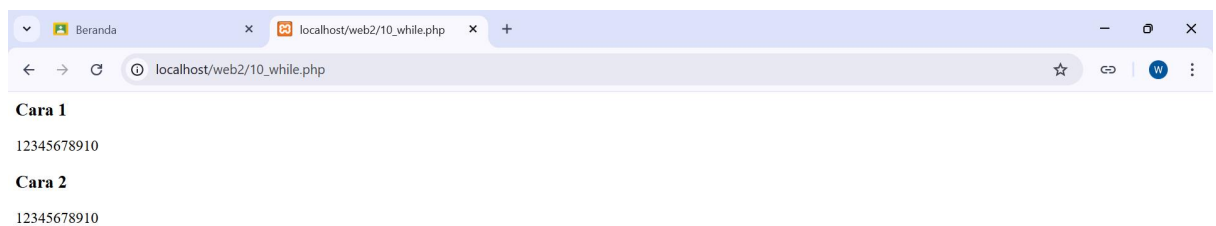
## 10. Struktur Kontrol : while

### INPUT



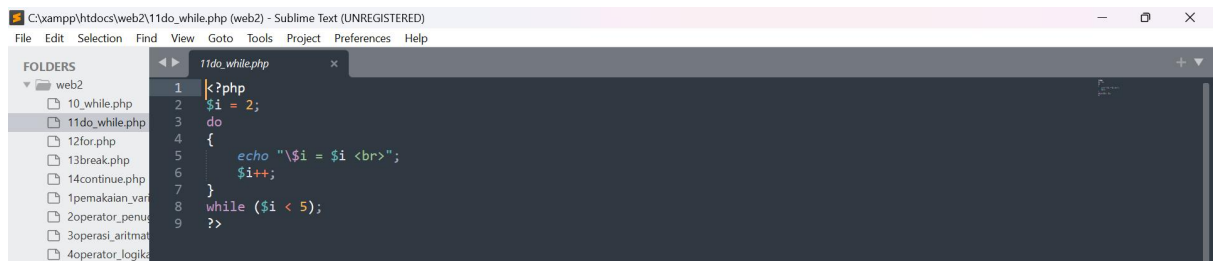
```
1 <?php
2 echo "<h3> Cara 1 </h3>";
3 $i = 1;
4 while ($i <= 10)
5 {
6 print $i++;
7 }
8 echo "<br>";
9 echo "<h3> Cara 2 </h3>";
10 $i = 1;
11 while ($i <= 10):
12 print $i;
13 $i++;
14 endwhile;
15 ?>
```

## OUTPUT



## 11. Struktur Kontrol : do...while

### INPUT



```
1 <?php
2 $i = 2;
3 do
4 {
5     echo "\$i = $i <br>";
6     $i++;
7 }
8 while ($i < 5);
9 ?>
```

## OUTPUT



## 12. Struktur Kontrol : for

### INPUT



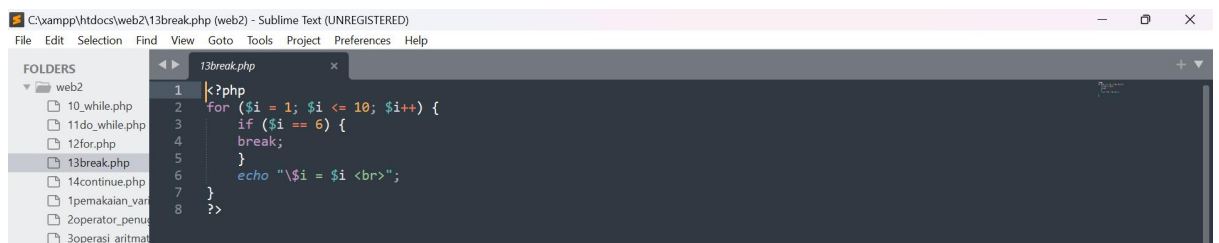
```
1 <?php
2 for ($i=1;$i<=10;$i++) {
3     print $i;
4 }
5 ?>
```

## OUTPUT



## 13. Struktur Kontrol : break

### INPUT



```
1 <?php
2 for ($i = 1; $i <= 10; $i++) {
3     if ($i == 6) {
4         break;
5     }
6     echo "\$i = $i <br>";
7 }
8 ?>
```

## OUTPUT

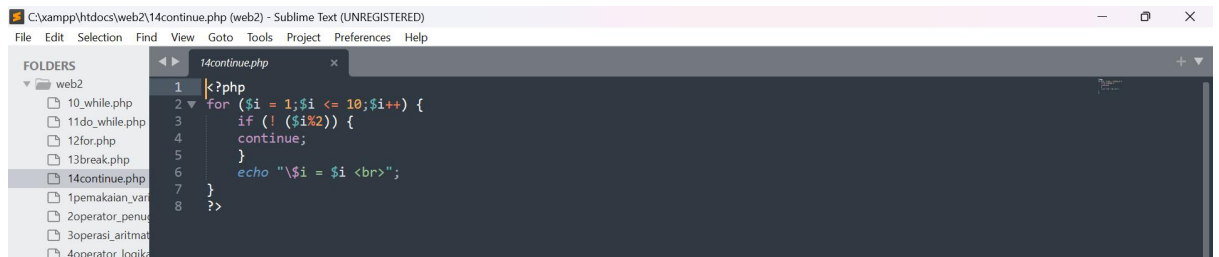




```
Si = 1  
Si = 2  
Si = 3  
Si = 4  
Si = 5
```

## 14. Struktur Kontrol : continue

### INPUT



```
1 <?php  
2 for ($i = 1; $i <= 10; $i++) {  
3     if (! ($i%2)) {  
4         continue;  
5     }  
6     echo "\$i = $i <br>";  
7 }  
8 ?>
```

### OUTPUT



```
Si = 1  
Si = 3  
Si = 5  
Si = 7  
Si = 9
```