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1. Tipe Data Number

```
1  echo "Decimal : ";
2  var_dump(1234);
3
4  echo "Octal : ";
5  var_dump(01234);
6
7  echo "Hexadecimal : ";
8  var_dump(0x1A);
9
10 echo "Binary : ";
11 var_dump(0b111111);
12
13 echo "Underscore in number : ";
14 var_dump(1_241_241_241);
15
16 echo "Floating Point : ";
17 var_dump(1.234);
18
19 echo "Floating Point dengan E Notation : (1.7 x 1000) : ";
20 var_dump(1.7e3);
21
22 echo "Floating Point dengan E Notation minus : (1.7 x 0.001) : ";
23 var_dump(1.7e-3);
24
25 echo "Underscore di floating point : ";
26 var_dump(1_123.123);
27
28 echo "Integer Overflow : ";
29 var_dump(9223372036854775808);
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\TipeDa
taNumber.php
Decimal : int(1234)
Octal : int(668)
Hexadecimal : int(26)
Binary : int(63)
Underscore in number : int(1241241241)
Floating Point : float(1.234)
Floating Point dengan E Notation : (1.7 x 1000) : float(1700)
Floating Point dengan E Notation minus : (1.7 x 0.001) : float(0.0017)
Underscore di floating point : float(1123.123)
Integer Overflow : float(9.223372036854776E+18)
```

2. Tipe Data Boolean

```
1 echo "Benar : ";
2 var_dump(true);
3
4 echo "Salah : ";
5 var_dump(false);
6
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\TipeDataBoolean.php
Benar : bool(true)
Salah : bool(false)
```

3. Tipe Data String

```
1 echo 'Name : ';
2 echo 'Eko Kurniawan Khannedy';
3 echo "\n";
4
5 echo "Name : ";
6 echo "Eko\t Kurniawan\t Khannedy\n";
7
8 echo <<<EKO
9 Selamat belajar PHP
10 sekarang, kita belajar tipe data string
11 ini adalah cara ke-3 membuat string
12 bisa menggunakan heredoc
13
14 EKO;
15
16 echo <<<'EKO'
17 Selamat belajar PHP
18 sekarang, kita belajar tipe data string
19 ini adalah cara ke-3 membuat string
20 bisa menggunakan heredoc
21 EKO;
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\TipeDataString.php
Name : Eko Kurniawan Khannedy
Name : Eko      Kurniawan      Khannedy
Selamat belajar PHP
sekarang, kita belajar tipe data string
ini adalah cara ke-3 membuat string
bisa menggunakan heredoc
Selamat belajar PHP
sekarang, kita belajar tipe data string
ini adalah cara ke-3 membuat string
bisa menggunakan heredoc
```

4. Variable

```
1  <?php
2
3  $name = "Eko";
4  $age = 30;
5
6  echo "Name : ";
7  echo $name;
8  echo "\n";
9
10 echo "Age : ";
11 echo $age;
12 echo "\n";
13
14
15 $contoh = "eko";
16 $$contoh = "kurniawan";
17
18 echo "Contoh : ";
19 echo $contoh;
20 echo "\n";
21
22 echo "eko : ";
23 echo $eko;
24 echo "\n";
25
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\Variable.php
Name : Eko
Age : 30
Contoh : eko
eko : kurniawan
```

5. Constant

```
1 <?php
2
3 define("AUTHOR", "Programmer Zaman Now");
4 define("APP_VERSION", 100);
5
6 echo "Author : ";
7 echo AUTHOR;
8 echo "\n";
9
10 echo "App Version : ";
11 echo APP_VERSION;
12 echo "\n";
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\Constant.php
Author : Programmer Zaman Now
App Version : 100
```

6. Data NULL

```
1 $name = "Eko";
2 $name = null;
3
4 $age = null;
5
6 echo "Name : ";
7 echo $name;
8 echo "\n";
9
10 echo "Age : ";
11 echo $age;
12 echo "\n";
13
14 echo "Is Name Null? : ";
15 var_dump(is_null($name));
16 echo "\n";
17
18 $contoh = "Eko";
19 unset($contoh);
20
21 $contoh = "Kurniawan";
22 $contoh = null;
23
24 var_dump(isset($contoh));
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\TipeDataNull.php
Name :
Age :
Is Name Null? : bool(true)
```

7. Tipe Data Array

```
1  <?php
2
3  $values = array(10, 9, 8, 7.5);
4  var_dump($values);
5
6  $names = ["Eko", "Kurniawan", "Khannedy"];
7  var_dump($names);
8
9  var_dump($names[0]);
10
11 $names[0] = "Budi";
12 var_dump($names);
13
14 unset($names[1]);
15 var_dump($names);
16
17 $names[] = "Joko";
18 var_dump($names);
19
20 var_dump(count($names));
21
22 $eko = array(
23     "id" => "eko",
24     "name" => "Eko Kurniawan",
25     "age" => 30,
26     "address" => array(
27         "city" => "Jakarta",
28         "country" => "Indonesia"
29     )
30 );
31 var_dump($eko);
32
33 var_dump($eko["name"]);
34 var_dump($eko["address"]["country"]);
35
36 $budi = [
37     "id" => "budi",
38     "name" => "Budi Nugraha",
39     "age" => 35,
40     "address" => [
41         "city" => "Jakarta",
42         "country" => "Indonesia"
43     ]
44 ];
45 var_dump($budi);
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\TipeDataArray.php
array(4) {
  [0]=>
  int(10)
  [1]=>
  int(9)
  [2]=>
  int(8)
  [3]=>
  float(7.5)
}
array(3) {
  [0]=>
  string(3) "Eko"
  [1]=>
  string(9) "Kurniawan"
  [2]=>
  string(8) "Khannedy"
}
string(3) "Eko"
array(3) {
  [0]=>
  string(4) "Budi"
  [1]=>
  string(9) "Kurniawan"
  [2]=>
  string(8) "Khannedy"
}
array(2) {
  [0]=>
  string(4) "Budi"
  [2]=>
  string(8) "Khannedy"
}
```

8. Operator Aritmatika

```
1  $a = 10;
2  $b = 10;
3
4  $result = $a + $b;
5  var_dump($result);
6
7  $resultNegative = -$result;
8  var_dump($resultNegative);
9
10 $resultPositive = +$result;
11 var_dump($resultPositive);
12
13 $resultModulo = 100 % 3;
14 var_dump($resultModulo);
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\OperatorAritmatika.php
int(20)
int(-20)
int(20)
int(1)
```

9. Operator Penugasan

```
1  <?php
2
3  $total = 0;
4
5  $fruit = 5000;
6  $chicken = 10000;
7  $orangeJuice = 5000;
8
9
10 $total += $fruit;
11 $total += $chicken;
12 $total += $orangeJuice;
13
14 var_dump($total);
```


```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\OperatorPenugasan.php
int(20000)
```

10. Operator Perbandingan

```
1  <?php
2
3  var_dump("10" == 10);
4  var_dump("10" === 10);
5
6  var_dump(10 < 9);
7  var_dump(9 >= 9);
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\OperatorPerbandingan.php
bool(true)
bool(false)
bool(false)
bool(true)
```

11. Operator Logika



```
1  <?php
```

```
2
```

```
3  var_dump(true && true);
```

```
4  var_dump(true && false);
```

```
5
```

```
6  var_dump(true || false);
```

```
7  var_dump(true || true);
```

```
8
```

```
9  var_dump(true xor false);
```

```
10 var_dump(true xor true);
```

```
11
```

```
12 var_dump(!true);
```

```
13 var_dump(!false);
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\Operat
orPerbandingan.php
bool(true)
bool(false)
bool(false)
orLogika.php
bool(true)
bool(false)
bool(true)
bool(true)
bool(true)
bool(false)
bool(false)
bool(true)
```


12. Increment dan Decrement



```
1  <?php
2
3  $a = 10;
4
5  $b = ++$a;
6
7
8  var_dump($b);
9  var_dump($a);
10
```

```
PS D:\Kampus\STMIK\Materi\Genap 2022-2023\Pemrograman Web\Teori\Tugas 4\Source Code> php .\IncrementDanDecrement.php
int(11)
int(11)
```