

LAPORAN UTS  
PRAKTIKUM 5



Oleh :

Handika Dio Pradana

21091397021

2021A

MANAJEMEN INFORMATIKA UNIVERSITAS NEGERI  
SURABAYA

PROGRRAM VOKASI

2021

## 1. Source code

```
1  <?php
2  class Pegawai
3  {
4      public $name;
5      public function __construct($name)
6      {
7          $this->name = $name;
8      }
9      public function getName()
10     {
11         return $this->name;
12     }
13 }
14
15 class Manager extends Pegawai
16 {
17     public $tunjangan;
18     public function __construct($name, $tunjangan)
19     {
20         parent::__construct($name);
21         $this->tunjangan = $tunjangan;
22     }
23     public function getTunjangan()
24     {
25         return $this->tunjangan;
26     }
27 }
28 class Kurir extends Pegawai
29 {
30     public $gaji;
31     public function __construct($name, $gaji)
32     {
33         parent::__construct($name);
34         $this->gaji = $gaji;
35     }
36     public function getGaji()
37     {
38         return $this->gaji;
39     }
40 }
```

```

30 public function getGaji()
31 {
32     return $this->gaji;
33 }
34 }
35 class Info {
36 public static
37 function Proses($peg)
38 {
39     if ($peg instanceof Manager)
40     {
41         $man = $peg;
42         echo "Nama Manager: ".$man->name."\n";
43         echo "tunjangan: RP. ".strval($man->tunjangan). "\n";
44     }
45     else if ($peg instanceof Kurir)
46     {
47         $kur = $peg;
48         echo "Nama Kurir: ".$kur->name."\n";
49         echo "gaji: Rp. ".strval($kur->gaji). "\n";
50     }
51 }
52 public static
53 function main($args)
54 {
55     echo "21091397021 Handika Dio", "\n";
56     echo "chr", "chr";
57     $peg1 = new Manager("Dio", 20000000);
58     SoulDev::Proses($peg1);
59     echo "chr", "chr";
60     $peg2 = new Kurir("Handika", 15000000);
61     SoulDev::Proses($peg2);
62 }
63 }
64 SoulDev::main($argv);
65 }

```

Ouput

21091397021 Handika Dio

Nama Manager: Dio

Tunjangan: RP. 20000000

Nama Kurir: Handika

Gaji: RP. 15000000

Analisa : Implementasi argumen polimorfik ada di kelas info di mana metode info dibuat statis sehingga tidak perlu memulai panggilan. Mengizinkan input langsung sebagai parameter metode info dari kelas info.

## 2. Source Code

```
1  <?php
2  class Pegawai
3  {
4      public $name;
5      public $gaji;
6      public function __construct($name, $gaji)
7      {
8          $this->name = $name;
9          $this->gaji = $gaji;
10     }
11     public function infoGaji()
12     {
13         return $this->gaji;
14     }
15 }
16 class Manager extends Pegawai
17 {
18     private $tunjangan;
19     public function __construct($name, $gaji, $tunjangan)
20     {
21         parent::__construct($name, $gaji);
22         $this->tunjangan = $tunjangan;
23     }
24     public function infoGaji()
25     {
26         return $this->gaji;
27     }
28     public function infoTunjangan()
29     {
30         return $this->tunjangan;
31     }
32 }
33 class Programmer extends Pegawai
34 {
35     private $bonus;
36     public function __construct($name, $gaji, $bonus)
37     {
38         parent::__construct($name, $gaji);
```

```

35     private $bonus;
36     public function __construct($name, $gaji, $bonus)
37     {
38         parent::__construct($name, $gaji);
39         $this->bonus = $bonus;
40     }
41     public function infoBonus()
42     {
43         return $this->bonus;
44     }
45 }
46
47 class Bayaran
48 {
49     public function hitungBayaran($peg)
50     {
51         $uang = $peg->infoGaji();
52         return $uang;
53     }
54     public static function main($args)
55     {
56         echo "Handika Dio", "\n";
57         echo "21091397021", "\n";
58         echo "<br>", "<br>";
59         $man = new Manager("Dio", 20000000, 45);
60         $prog = new Programmer("Handika", 18000000, 30);
61         $br = new Bayaran();
62         echo "<br>Gaji Manager : $man->name," . RP. ".strval($br->hitungBayaran($man)), "\n";
63         echo "<br>Gaji Programmer : $prog->name," . RP. ".strval($br->hitungBayaran($prog)), "\n";
64     }
65 }
66 Bayaran::main(array());
67 >

```

Ouput

Handika Dio 21091397021

Gaji Manager Dio : RP. 20000000

Gaji Programmer Handika : RP. 18000000

Analisa :

Program ini menggunakan konsep overriding untuk mengimplementasikan pewarisan. Saat Anda memanggil konstruk

pada setiap kelas turunan, hanya properti yang dimilikinya yang dimulai dengan visibilitas pribadi, properti turunan lainnya mulai langsung pada konstruk kelas induk.