# LAPORAN PRAKTIKUM 5 PEMROGRAMAN BERORIENTASI OBJEK



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### SOURCE CODE DAN ANALISIS

### 1. Analisis 1

```
6 <!DOCTYPE html>
    <html lang="id">
    <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
10
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
11
       <title>Praktikum 5</title>
12
13 </head>
14 <body style="align-items: center;">
      <div class="container">
15
           <h2>Soa1 1</h2>
16
17
18
           <?php
19 class Pegawai
20 {
21
            public $nama;
22
           public function __construct($nama)
23
24
                   $this->nama = $nama;
25
          public function getNama()
27
28
                   return $this->nama;
29
30 }
31 class Manajer extends Pegawai
32 {
           public $tunjangan;
33
           public function __construct($nama, $tunjangan)
34
35
36
                   parent:: construct($nama);
                   $this->tunjangan = $tunjangan;
37
38
           }
           public function getTunjangan()
39
40
41
                   return $this->tunjangan;
42
43 }
```

```
44 class Kurir extends Pegawai
45 {
             public $gaji;
46
47
         public
                   function __construct($nama, $gaji)
48
49
             {
50
                     parent::__construct($nama);
51
52
                     $this->gaji = $gaji;
            public function getGaji()
57
                     return $this->gaji;
59 }
60 class Soal1
61 {
62
             public static
             function Proses($peg)
63
64
65
                      if ($peg instanceof Manajer)
66
67
                              Sman = Speg;
                              echo "<br/>br>Nama manajer: ".$man->nama, "\n";<br/>echo "<br/>br>Tunjangan: Rp. ".strval($man->tunjangan), "\n";
68
69
70
71
                     else if ($peg instanceof Kurir)
                              $kur = $peg;
                              echo "<br>Nama kurir: ".$kur->nama, "\n";
                              echo "<br/>br>Gaji: Rp. ".strval($kur->gaji), "\n";
76
            }
```

```
public static
79
           function main($args)
                  echo "Sayyidina Auliya- 210913970034", "\n";
81
       echo "<br>", "<br>";
83
                 $peg1 = new Manajer("gayatri", 9000000);
                 Soal1::Proses($peg1);
84
      Soal1::Proses
echo "<br>", "<br>";
          $peg2 = new Kurir("ica ", 7500000);
86
87
                  Soal1::Proses(Speg2);
88
89 }
90 Soal1::main(array());
91 ?>
92
93
       </div>
94 </body>
95 </html>
```

## Analisis:

Kasus pada soal diatas, yaitu implementasi polymorphic argument dengan berada di class info dimana method info dibuat static supaya pemanggilnya tidak memerlukan diinisiasi. Sehingga dapat langsung dimasukkan menjadi parameter pada method info di class info.

## 2. Analisis 2

```
6 <!DOCTYPE html>
   <html lang="id">
8 <head>
       <meta charset="UTF-8">
0
10
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
12
       <title>Praktikum 5</title>
13 </head>
14 <body>
15
      <div class="container">
16
           <h2>Soal 2</h2>
17
18
19 class Pegawai
20 {
21
          public $nama;
          public Sgaji;
         public function __construct($nama, $gaji)
{
23
24
                  $this->nama = $nama;
26
                  $this->gaji = $gaji;
27
   public function infoGaji()
28
29
30
                  return Sthis->gaji;
31
32 }
```

```
33 class Manajer extends Pegamai
 34 {
 35
            private $tunjangan;
 36
            public function __construct($nama, $gaji, $tunjangan)
 37
 38
                    parent::_construct($nama, $gaji);
                   $this->tunjangan = $tunjangan;
          }
 40
 41
           public function infoGaji()
 42
 43
                   return $this->gaji;
 44
 45
           public function infoTunjangan()
 45
 47
                  return $this->tunjangan;
 48
 49 }
 50 class Programmer extends Pegawai
 51
            private $bonus:
 52
 53
           public function __construct($nama, $gaji, $bonus)
 54
 55
                    parent::_construct($nama, $gaji);
 56.
                   $this->bonus = $bonus;
 57
          public function infoGaji()
 59
          -{
 60
                  return 5this->gaii:
 51
          public function infoBonus()
{
 62
 63
 64
                  return Sthis->bonus:
 65
 66 }
```

```
67 class Bayaran
68
69
            public function hitungBayaran($peg)
70
71
                   Suang = Speg->infoGaji();
72
73
         public static function main($args)
{
75
76
77
                   echo "Sayyidina Auliya- 210913970034";
78
79
                   $man = new Manajer("Gayatri", 6000000, 800000);
          echo "«br>", "«br>";
80
81
                   $prog = new Programmer("ica", 10000000, 900000);
83
                   Shr = new Bayaran():
                   echo "<br/>br> Gaji untuk Manajer Bernama ". Sman->nama." : Rp. ".strval($hr->hitungBayaran($man)) , "\n";
84
85
86
                   echo "<br/>br>Gaji untuk Programmer Bernama ".Sprog->nama. " : Rp. ".strval($hr->hitungBayaran($prog)) , "\n";
87
88
           1
89 }
90 Bayaran::main(array());
          7>
91
92
           <!-- END PHP -->
93
       </div>
    </html>
```

## Analisis:

Program penerapan inheritance dengan konsep overriding ini, pemanggilan construct di masing-masing class turunannya hanya akan menginisiasi property yang dimiliki dengan visibilitas private dan property lain yang diturunkan akan langsung diinisiasi dengan construct dari parentnya.