

Tugas Ujian Tengah Semester Pemrograman Berorientasi Obyek
Praktikum 5 (Polimorfisme)



Disusun oleh:

Rafie Mirza Ramadhan (21091397037)

Program Studi D4 Manajemen Informatika

Program Vokasi

Universitas Negeri Surabaya

2022

1. Soal No. 1

```
PBOsem3 > praktikum > UTS > praktikum5 > no1.php
1 <!DOCTYPE html>
2 <html lang="id">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>Praktikum 5</title>
8 </head>
9 <body style="align-items: center;">
10     <div class="container">
11         <h2>Soal Nomor 1</h2>
12
13         <?php
14 class Pegawai
15 {
16     public $nama;
17     public function __construct($nama)
18     {
19         $this->nama = $nama;
20     }
21     public function getNama()
22     {
23         return $this->nama;
24     }
25 }
26 class Manajer extends Pegawai
27 {
28     public $tunjangan;
29     public function __construct($nama, $tunjangan)
30     {
31         parent::__construct($nama);
32         $this->tunjangan = $tunjangan;
33     }
34 }
```

```
PBOsem3 > praktikum > UTS > praktikum5 > no1.php
30 {
31     parent::__construct($nama);
32     $this->tunjangan = $tunjangan;
33 }
34 public function getTunjangan()
35 {
36     return $this->tunjangan;
37 }
38 }
39 class Kurir extends Pegawai
40 {
41     public $gaji;
42
43     public function __construct($nama, $gaji)
44     {
45         parent::__construct($nama);
46         $this->gaji = $gaji;
47     }
48
49     public function getGaji()
50     {
51         return $this->gaji;
52     }
53 }
54 }
55 class Soal1{
56     public static
57     function Proses($peg){
58         if ($peg instanceof Manajer){
59             $man = $peg;
60             echo "<br>Nama manajer : ".$man->nama, "\n";
61             echo "<br>Tunjangan : Rp. ".strval($man->tunjangan), "\n";
62         }
63     }
64 }
```

```
PBOsem3 > praktikum > UTS > praktikum5 > no1.php
58     if ($peg instanceof Manajer){
59         $man = $peg;
60         echo "<br>Nama manajer : ".$man->nama, "\n";
61         echo "<br>Tunjangan : Rp. ".strval($man->tunjangan), "\n";
62     }
63     else if ($peg instanceof Kurir){
64         $kur = $peg;
65         echo "<br>Nama kurir : ".$kur->nama, "\n";
66         echo "<br>Gaji : Rp. ".strval($kur->gaji), "\n";
67     }
68 }
69 public static
70 function main($args){
71     echo "Rafie Mirza Ramadhan - 21091397037", "\n";
72     echo "<br>";
73     $peg1 = new Manajer("Iwan", 5000000);
74     Soal1::Proses($peg1);
75     echo "<br>";
76     $peg2 = new Kurir("Dimas", 2000000);
77     Soal1::Proses($peg2);
78 }
79 }
80 Soal1::main(array());
81 ?>
82 </div>
83 </body>
84 </html>
```

Output:

Soal Nomor 1

Rafie Mirza Ramadhan - 21091397037

Nama manajer : Iwan
Tunjangan : Rp. 5000000

Nama kurir : Dimas
Gaji : Rp. 2000000

2. Soal No. 2

```
PBOsem3 > praktikum > UTS > praktikum5 > no2.php
1 <!DOCTYPE html>
2 <html lang="id">
3 <head>
4 <link rel="stylesheet" type="text/css" href="No2css.css">
5 <meta charset="UTF-8">
6 <meta http-equiv="X-UA-Compatible" content="IE=edge">
7 <meta name="viewport" content="width=device-width, initial-scale=1.0">
8 <title>Praktikum 5</title>
9 </head>
10 <body>
11 <div class="container">
12 <h2>Soal Nomor 2</h2>
13 <?php
14 class Pegawai
15 {
16     public $nama;
17     public $gaji;
18     public function __construct($nama, $gaji)
19     {
20         $this->nama = $nama;
21         $this->gaji = $gaji;
22     }
23     public function infoGaji()
24     {
25         return $this->gaji;
26     }
27 }
28 class Manajer extends Pegawai
29 {
30     private $tunjangan;
31     public function __construct($nama, $gaji, $tunjangan)
32     {
33         parent::__construct($nama, $gaji);
34         $this->tunjangan = $tunjangan;
35     }
36     public function infoGaji()
37     {
38         return $this->gaji;
39     }
40     public function infoTunjangan()
41     {
42         return $this->tunjangan;
43     }
44 }
45 class Programmer extends Pegawai
46 {
47     private $bonus;
48     public function __construct($nama, $gaji, $bonus)
49     {
50         parent::__construct($nama, $gaji);
51         $this->bonus = $bonus;
52     }
53     public function infoGaji()
54     {
55         return $this->gaji;
56     }
57     public function infoBonus()
58     {
59         return $this->bonus;
60     }
61 }
62 class Revisi
63 {
64     private $revisi;
65     public function __construct($revisi)
66     {
67         $this->revisi = $revisi;
68     }
69     public function infoRevisi()
70     {
71         return $this->revisi;
72     }
73 }
```

```
PBOsem3 > praktikum > UTS > praktikum5 > no2.php
30 private $tunjangan;
31 public function __construct($nama, $gaji, $tunjangan)
32 {
33     parent::__construct($nama, $gaji);
34     $this->tunjangan = $tunjangan;
35 }
36 public function infoGaji()
37 {
38     return $this->gaji;
39 }
40 public function infoTunjangan()
41 {
42     return $this->tunjangan;
43 }
44 }
45 class Programmer extends Pegawai
46 {
47     private $bonus;
48     public function __construct($nama, $gaji, $bonus)
49     {
50         parent::__construct($nama, $gaji);
51         $this->bonus = $bonus;
52     }
53     public function infoGaji()
54     {
55         return $this->gaji;
56     }
57     public function infoBonus()
58     {
59         return $this->bonus;
60     }
61 }
62 class Revisi
63 {
64     private $revisi;
65     public function __construct($revisi)
66     {
67         $this->revisi = $revisi;
68     }
69     public function infoRevisi()
70     {
71         return $this->revisi;
72     }
73 }
```

```
PBOsem3 > praktikum > UTS > praktikum5 > no2.php
60     }
61 }
62 class Bayaran
63 {
64     public function hitungBayaran($peg)
65     {
66         $uang = $peg->infoGaji();
67
68         return $uang;
69     }
70     public static function main($args)
71     {
72         echo "Rafie Mirza Ramadhan - 21091397037";
73         $man = new Manajer("Iwan", 5000000, 500000);
74         echo "<br>";
75         $prog = new Programmer("Tama", 4000000, 300000);
76         echo "<br>";
77         $hr = new Bayaran();
78         echo "<br> Gaji untuk Manajer Bernama ". $man->nama. " : Rp. ".strval($hr->hitungBayaran($man)) , "\n";
79         echo "<br>", "<br>";
80         echo "<br>Gaji untuk Programmer Bernama ".$prog->nama. " : Rp. ".strval($hr->hitungBayaran($prog)) , "\n";
81     }
82 }
83
84 Bayaran::main(array());
85 ?>
86 <!-- END PHP -->
87 </div>
88 </body>
89 </html>
```

Output:

Soal Nomor 2

Rafie Mirza Ramadhan - 21091397037

Gaji untuk Manajer Bernama Iwan : Rp. 5000000

Gaji untuk Programmer Bernama Tama : Rp. 4000000