

**LAPORAN TUGAS PEMPGRAMAN BEROIRENTASI OBJEK
PRAKTIKUM 5**



Disusun oleh :

Muhammad Dhafa Jawadil Ubaid

21091397058

Program Studi D4 Manajemen Informatika

Program Vokasi

Universitas Negeri Surabaya

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1. Suatu program terdiri dari class Pegawai sebagai parent class, class Manajer dan class Kurir sebagai subclass. Buatlah suatu program yang menerapkan konsep polymorphic argument (Polymorphic arguments adalah tipe suatu parameter yang menerima suatu nilai yang bertipe subclass-nya)

```
1 <!-- Muhammad Dhafa Jawadil Ubaid ; 21091397058 ; 2021B -->
2
3 <!DOCTYPE html>
4 <html lang="id">
5 <head>
6     <meta charset="UTF-8">
7     <meta http-equiv="X-UA-Compatible" content="IE=edge">
8     <meta name="viewport" content="width=device-width, initial-scale=1.0">
9     <title>Prak 5</title>
10 </head>
11 <body style="align-items: center;">
12     <div class="container">
13         <h2>Soal 1</h2>
14
15         <?php
16 class Pegawai
17 {
18     public $nama;
19     public function __construct($nama)
20     {
21         $this->nama = $nama;
22     }
23     public function getNama()
24     {
25         return $this->nama;
26     }
27 }
28 class Manajer extends Pegawai
29 {
30     public $tunjangan;
31     public function __construct($nama, $tunjangan)
32     {
33         parent::__construct($nama);
34         $this->tunjangan = $tunjangan;
35     }
36     public function getTunjangan()
37     {
38         return $this->tunjangan;
39     }
40 }
41 class Kurir extends Pegawai
42 {
43     public $gaji;
44
45     public function __construct($nama, $gaji)
46     {
47         parent::__construct($nama);
48
49         $this->gaji = $gaji;
50     }
51     public function getGaji()
52     {
53         return $this->gaji;
54     }
55 }
56 }
57 class Soal1
58 {
59     public static
60     function Proses($peg)
61     {
62         if ($peg instanceof Manajer)
```

```

62         if ($peg instanceof Manajer)
63         {
64             $man = $peg;
65             echo "<br>Nama manajer: ".$man->nama, "\n";
66             echo "<br>Tunjangan: Rp. ".strval($man->tunjangan), "\n";
67         }
68         else if ($peg instanceof Kurir)
69         {
70             $kur = $peg;
71             echo "<br>Nama kurir: ".$kur->nama, "\n";
72             echo "<br>Gaji: Rp. ".strval($kur->gaji), "\n";
73         }
74     }
75     public static
76     function main($args)
77     {
78         echo "Muhammad Dhafa Jawadil Ubaid - 21091397058", "\n";
79         echo "<br>", "<br>";
80         $peg1 = new Manajer("Ubet", 95000000);
81         Soal1::Proses($peg1);
82         echo "<br>", "<br>";
83         $peg2 = new Kurir("Tolib", 150000);
84         Soal1::Proses($peg2);
85     }
86 }
87 Soal1::main(array());
88 ?>
89
90 </div>
91 </body>
92 </html>

```

Output :

<--- Muhammad Dhafa Jawadil Ubaid ; 21091397058 ; 2021B --->

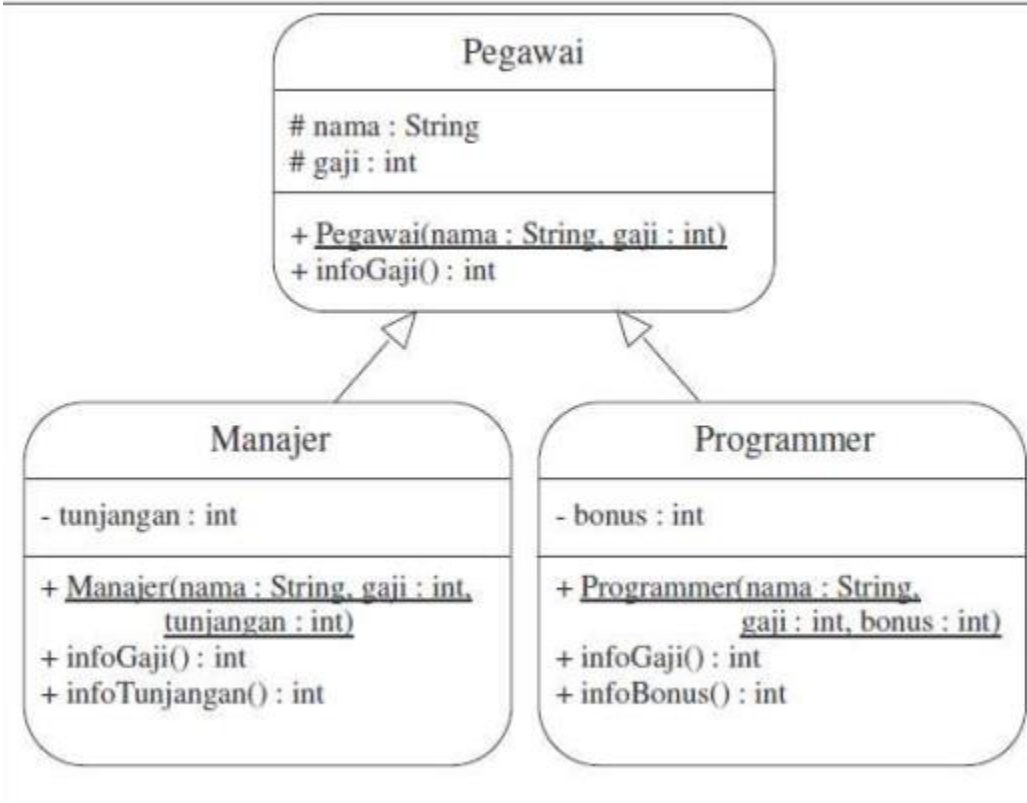
Soal 1

Muhammad Dhafa Jawadil Ubaid - 21091397058

Nama manajer: Ubet
Tunjangan: Rp. 95000000

Nama kurir: Tolib
Gaji: Rp. 150000

2. Buat program berdasarkan UML berikut



```
1  <--- Muhammad Dhafa Jawadil Ubaid ; 21091397058 ; 2021B --->
2
3  <!DOCTYPE html>
4  <html lang="id">
5  <head>
6      <meta charset="UTF-8">
7      <meta http-equiv="X-UA-Compatible" content="IE=edge">
8      <meta name="viewport" content="width=device-width, initial-scale=1.0">
9      <title>Prak 5</title>
10 </head>
11 <body>
12 <div class="container">
13     <h2>Soal 2</h2>
14
15     <?php
16     class Pegawai
17     {
18         public $nama;
19         public $gaji;
20         public function __construct($nama, $gaji)
21         {
22             $this->nama = $nama;
23             $this->gaji = $gaji;
24         }
25         public function infoGaji()
26         {
27             return $this->gaji;
28         }
29     }
30     class Manajer extends Pegawai
31     {
32         private $tunjangan;
33         public function __construct($nama, $gaji, $tunjangan)
```

```

33     public function __construct($nama, $gaji, $tunjangan)
34     {
35         parent::__construct($nama, $gaji);
36         $this->tunjangan = $tunjangan;
37     }
38     public function infoGaji()
39     {
40         return $this->gaji;
41     }
42     public function infoTunjangan()
43     {
44         return $this->tunjangan;
45     }
46 }
47 class Programmer extends Pegawai
48 {
49     private $bonus;
50     public function __construct($nama, $gaji, $bonus)
51     {
52         parent::__construct($nama, $gaji);
53         $this->bonus = $bonus;
54     }
55     public function infoGaji()
56     {
57         return $this->gaji;
58     }
59     public function infoBonus()
60     {
61         return $this->bonus;
62     }
63 }

```

```

63 }
64 class Bayaran
65 {
66     public function hitungBayaran($peg)
67     {
68         $uang = $peg->infoGaji();
69
70         return $uang;
71     }
72     public static function main($args)
73     {
74         echo "Muhammad Dhafa Jawadil Ubaid - 21091397058";
75         echo "<br>";
76         $man = new Manajer("Ubet", 9500000, 600000000);
77         echo "<br>", "<br>";
78         $prog = new Programmer("Alex", 27000000, 35500000);
79         echo "<br>", "<br>";
80         $hr = new Bayaran();
81         echo "<br> Gaji untuk Manajer Bernama ". $man->nama." : Rp. ".strval($hr->hitungBayaran($man)) , "\n";
82         echo "<br>", "<br>";
83         echo "<br>Gaji untuk Programmer Bernama ".$prog->nama. " : Rp. ".strval($hr->hitungBayaran($prog)) , "\n";
84
85     }
86 }
87 Bayaran::main(array());
88 ?>
89 <!-- END PHP -->
90 </div>
91 </body>
92 </html>

```

Output :

<--- Muhammad Dhafa Jawadil Ubaid ; 21091397058 ; 2021B --->

Soal 2

Muhammad Dhafa Jawadil Ubaid - 21091397058

Gaji untuk Manajer Bernama Ubet : Rp. 95000000

Gaji untuk Programmer Bernama Alex : Rp. 27000000