LAPORAN PRAKTIKUM 5



Oleh:

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PROGRAM STUDI D4 MANAJEMEN INFORMATIKA FAKULTAS VOKASI UNIVERSITAS NEGERI SURABAYA 2022

1. Buatlah Program berdasarkan UML dibawah ini

Codingan

PHP

```
刘 File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
       ₩ Nomor1 Prak5.php X ₩ Nomor2 Prak5.php
                     -- Nama : Nur Haslinda
        C: > Xampp > htdocs > PBO > Prak 5 > ♥ Nomor1 Prak5.php
Q
                        NIM : 21091397035
Kelas : 2021 A--->
ည္
                 <!DOCTYPE html>
$
                <html lang="id"
品
                     <meta charset="UTF-8">
                     <meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Praktikum 5</title>
          11
12
                 <body style="align-items: center;">
     <div class="container">
          14
          16
                           <h2>Soal 1</h2>
          18
                 class Pegawai
         20
21
22
                      public $nama;
public function __construct($nama)
          23
24
                           $this->nama = $nama;
          25
          26
                      public function getNama()
                           return $this->nama;
          28
          29
```

```
public $tunjangan;
ď
         34
35
36
37
38
39
40
41
                    public function __construct($nama, $tunjangan)
$
                        parent::__construct($nama);
$this->tunjangan = $tunjangan;
品
                    public function getTunjangan()
                        return $this->tunjangan;
         43
44
45
               class Kurir extends Pegawai
         46
                    public $gaji;
         47
         48
                    public function __construct($nama, $gaji)
         49
         50
51
52
                        parent::__construct($nama);
                        $this->gaji = $gaji;
                    public function getGaji()
         56
57
58
                        return $this->gaji;
```

```
61
62
63
64
                            public static
g
                             function Proses($peg)
             65
66
                                    if ($peg instanceof Manajer)
                                         $man = $peg;
echo "<br/>chr>Nama manajer: ".$man->nama, "\n";
echo "<br/>br>Tunjangan: Rp. ".strval($man->tunjangan), "\n";
             67
品
             68
             70
71
72
73
74
75
76
77
78
79
                                    else if ($peg instanceof Kurir)
                                         $kur = $peg;
echo "<br/>sbr>Nama kurir: ".$kur->nama, "\n";
echo "<br/>br>Gaji: Rp. ".strval($kur->gaji), "\n";
                             function main($args)
             80
                                   echo "Nur Haslinda_21091397035", "\n";
echo "<br/>tr>", "<br/>feg1 = new Manajer("Linda", 10000000);
             81
             82
             83
             84
                                    Soal1::Proses($peg1);
                                   echo "<br>", "<br>";
$peg2 = new Kurir("Bagus", 4000000);
             85
             86
                                    Soal1::Proses($peg2);
```

```
90 Soal1::main(array());
91 ?>
92 |
93 | </div>
94 </body>
95 </html>
```

Output

Soal 1

Nur Haslinda_21091397035

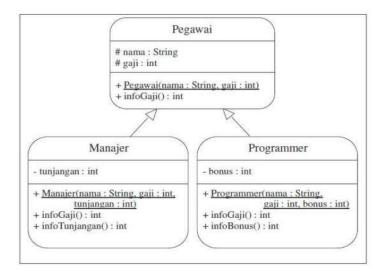
Nama manajer: Linda Tunjangan: Rp. 10000000

Nama kurir: Bagus Gaji: Rp. 4000000

Analisa

Dalam kasus diatas implementasi dari polymorphic argument berada di class info dimana methodinfo dibuat static supaya pemanggilannya tidak perlu diinisiasi, sehingga bisa langsung dimasukkan menjadi parameter pada method info di class info.

2. Buatlah Program berdasarkan UML dibawah ini



Codingan

PHP

```
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        M Nomor1 Prak5.php
                                    Momor2 Prak5.php X
         C: > Xampp > htdocs > PBO > Prak 5 > ♥ Nomor2 Prak5.php
                       -- Nama : Nur Haslinda
NIM : 21091397035
Kelas : 2021 A--->
Q
مړ
                 <!DOCTYPE html>
<html lang="id">
$
                       <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width-device-width, initial-scale=1.0">
品
          9
           11
12
                       <title>Praktikum 5</title>
          13
14
          15
16
                             <h2>Soal 2</h2>
          17
18
                  class Pegawai
           19
           20
                       public $nama;
          21
22
                       public $gaji;
public function __construct($nama, $gaji)
          23
24
25
26
27
                             $this->nama = $nama;
$this->gaji = $gaji;
                        public function infoGaji()
           28
29
30
                             return $this->gaji;
```

```
lass Manajer extends Pegawai
          33
34
                      private $tunjangan;
public function __construct($nama, $gaji, $tunjangan)
مړه
          36
37
38
₽
                           parent::__construct($nama, $gaji);
$this->tunjangan = $tunjangan;
          39
40
41
42
品
                      public function infoGaji()
                           return $this->gaji;
         43
44
                      public function infoTunjangan()
                           return $this->tunjangan;
         47
48
         49
50
                 class Programmer extends Pegawai
         51
52
53
54
55
56
57
                      private $bonus;
public function __construct($nama, $gaji, $bonus)
                           parent::__construct($nama, $gaji);
$this->bonus = $bonus;
                      public function infoGaji()
          58
59
60
                           return $this->gaji;
                      public function infoBonus()
         62
63
64
                           return $this->bonus;
8
          65
```

Output

Soal 2

Nur Haslinda 21091397035

Gaji untuk Manajer Bernama Linda : Rp. 10000000

Gaji untuk Programmer Bernama Nur : Rp. 8000000

Analisa

Program diatas adalah penerapan inheritance dengan konsep overriding, dimana pemanggilan construct di masing-masing class turunan hanya akan menginisiasi properti yang dimiliki dengan visibilitas private dan properti lain yang diturunkan akan langsung diinisiasi dengan construct dari parentnya.