LAPORAN PRAKTIKUM 5 MATAKULIAH PEMROGRAMAN BERORIENTASI OBYEK



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D4 MANAJEMEN INFORMATIKA UNIVERSITAS NEGERI SURABAYA 2021/2022

- 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)
 - Source Code

```
Run Terminal Help
                                         no.1.php - numpyproject
no.1.php X no.2.php C:\...\htdocs\...
                                          no.2.php C:\...\tuga
C: > Users > Asuspro > Documents > Semester 3 > PBO > tugas > Prak5 >
       <!-- Revina Aurigha Firdaus --
       class Pegawai
  3
           public $name;
           public function __construct($name)
  6
               $this->name = $name;
  8
  9
  10
           public function getName()
 11
               return $this->name;
 13
 14
 15
 16
       class Manager extends Pegawai
 17
 18
           public $tunjangan;
 19
           public function __construct($name, $tunjangan)
 20
 21
               parent::__construct($name);
 22
               $this->tunjangan = $tunjangan;
 23
           public function getTunjangan()
 24
 25
               return $this->tunjangan;
 26
 27
 28
 29
       class Kurir extends Pegawai
 30
           public $gaji;
           public function __construct($name, $gaji)
 32
```

```
no.1.php - numpyproject - Visual Studio Code
no.1.php X no.2.php C:\...\htdocs\...
                                                                                                                                                                                         ** no.2.php C:\...\tugas\...
C: > Users > Asuspro > Documents > Semester 3 > PBO > tugas > Prak5 > ♠ no.1.php
                                class Kurir extends Pegawai
     30
   31
32
33
34
35
                                              public $gaji;
                                                public function __construct($name, $gaji)
                                                                   parent::__construct($name);
                                                                   $this->gaji = $gaji;
   36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
                                                 public function getGaji()
                                                                   return $this->gaji;
                                class SoalNo1
                                                 public static
                                                   function Proses($peg)
                                                                    if ($peg instanceof Manager)
                                                                                     $man = $peg;
echo "<br/>
echo "<br/>
**Tunjangan: RP. ".strval($man->tunjangan), "\n";
                                                                        else if ($peg instanceof Kurir)
                                                                                       echo "<br/>
cho "<br/>
**Seria = **Peg,**
echo "<br/>
**Seria = **Recomplete: ".$kur->name, "\n";
echo "<br/>
**Seria = **Recomplete: ".$kur->name, "\n";
echo "<br/>
**Seria = **Peg,**
echo "<br/>
**Seria = **Recomplete: ".$kur->name, "\n";
echo "<br/>
*
    56
```

```
Run Terminal Help
                                          no.1.php - numpyproject - Visual Studio Code
no.1.php
                no.2.php C:\...\htdocs\...
                                           no.2.php C:\...\tugas\...
                                                                     no1.ph
C: > Users > Asuspro > Documents > Semester 3 > PBO > tugas > Prak5 > ♠ no.1.php
                else if ($peg instanceof Kurir)
 53
 54
 55
                    $kur = $peg;
                    echo "<br>Nama Kurir: ".$kur->name, "\n";
 56
                    echo "<br>Gaji= RP. ".strval($kur->gaji), "\n";
 57
 58
 59
 60
 61
            function main($args)
 62
                echo "PRAKTIKUM 5 POLIMORFISME NO.1", "\n";
 64
                echo "<br>", "<br>";
                $peg1 = new Manager("Revina Aurigha Firdaus", 1200000);
 65
 66
                SoalNo1::Proses($peg1);
 67
                echo "<br>", "<br>";
                $peg2 = new Kurir("Andika T", 2500000);
 68
 69
                SoalNo1::Proses($peg2);
 70
 71
 72
       SoalNo1::main(array());
```

Output

PRAKTIKUM 5 POLIMORFISME

Nama Manager: Revina Aurigha Firdaus

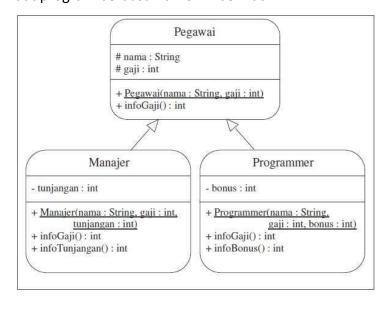
Tunjangan: RP. 1200000

Nama Kurir: Andika T Gaji= RP. 2500000

Analisis

Di atas terdapat 2 sub class yaitu class manager dan class kurir. Dua class tersebut sama sama turunan dari parent class yaitu pegawai. Walaupun sama dari turunan pegawai tetapi memiliki fungsi yang berbeda. Fungsi class manager untuk melihat nama dan tunjangan sedangkan class kurir untuk melihat nama dan gaji.

2. Buat program berdasarkan UML berikut



Source Code

```
Run Terminal Help
                                          no.2.php - numpyproject - Visual Studio
no.1.php
               no.2.php C:\...\htdocs\... X
                                           no.2.php C:\...\tugas\...
C: > xampp > htdocs > Prak5 > 🦛 no.2.php
       <!-- Revina Aurigha Firdaus
       class Pegawai
  4
           public $name;
           public $gaji;
  8
           public function __construct($name, $gaji)
  9
               $this->name = $name;
$this->gaji = $gaji;
 10
 11
 12
           public function infoGaji()
 14
 15
               return $this->gaji;
 16
 17
 18
       class Manager extends Pegawai
 19
           private $tunjangan;
 20
           public function __construct($name, $gaji, $tunjangan)
 22
 23
               parent::__construct($name, $gaji);
 24
               $this->tunjangan = $tunjangan;
 25
 26
           public function infoGaji()
 27
               return $this->gaji;
 28
 29
 30
           public function infoTunjangan()
               return $this->tunjangan;
 32
```

```
C: > xampp > htdocs > Prak5 > 👭 no.2.php
33
34
      class Programmer extends Pegawai
36
37
          private $bonus;
          public function __construct($name, $gaji, $bonus)
38
39
40
               parent::__construct($name, $gaji);
41
               $this->bonus = $bonus;
42
           public function infoBonus()
43
44
45
               return $this->bonus;
46
47
48
      class Bavaran
49
          public function hitungBayaran($peg)
               $uang = $peg->infoGaji();
52
53
54
               return $uang;
56
           public static function main($args)
57
58
59
               echo "PRAKTIKUM 5 POLIMORFISME NO.2", "\n";
               echo "<br>", "<br>";
$man = new Manager("Revina A F", 25000000, 45);
60
61
               $prog = new Programmer("Alvaro", 5000000, 30);
               $hr = new Bayaran();
echo "<br>>Gaji Manager ". $man->name." : RP. ".strval($hr->hitungBayaran($man)), "\n";
63
64
```

```
52
                  $uang = $peg->infoGaji();
54
                 return $uang;
56
             public static function main($args)
57
58
59
                 echo "PRAKTIKUM 5 POLIMORFISME NO.2", "\n";
                 echo "<br/>br>", "<br/>$man = new Manager("Revina A F", 25000000, 45);
60
62
                 $prog = new Programmer("Alvaro", 5000000, 30);
63
                 $hr = new Bayaran();
                 echo "<br/>br>Gaji Manager ". $man->name." : RP. ".strval($hr->hitungBayaran($man)), "\n";<br/>echo "<br/>br>Gaji Programmer ". $prog->name." : RP. ".strval($hr->hitungBayaran($prog)), "\n";
64
65
66
67
68
       Bayaran::main(array());
```

Output

PRAKTIKUM 5 POLIMORFISME NO.2

Gaji Manager Revina A F : RP. 25000000 Gaji Programmer Alvaro : RP. 5000000

Analisis

Di atas terdapat 2 sub class yaitu class manager dan class programer. Dua class tersebut sama sama turunan dari parent class yaitu pegawai. Walaupun sama dari turunan pegawai tetapi memiliki fungsi yang berbeda. Fungsi class manager untuk melihat gaji dari manager sedangkan class programer untuk melihat gaji programer.