LAPORAN PRAKTIKUM 5

POLIMORFISME

Mata Kuliah Pemograman Berorientasi Objek



Oleh:

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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)

Source Code

```
₱ Prak5No1.php ×
Prak5No1.php > ♦ html > ♦ body > ♦ div.container > ♦ Soal1 > ♦ main
     <!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">
          <title>Praktikum 5 No.1</title>
      <body style="align-items: center;">
          <div class="container">
              <h2>Soal 1</h2>
      class Pegawai
          public $nama;
          public function __construct($nama)
              $this->nama = $nama;
          public function getNama()
              return $this->nama;
      class Manajer extends Pegawai
```

```
class Soal1
     function Proses($peg)
          if ($peg instanceof Manajer)
              $man = $peg;
              echo "<br/>br>Nama manajer: ".$man->nama, "\n";
echo "<br>Tunjangan: Rp. ".strval($man->tunjangan), "\n";
         else if ($peg instanceof Kurir)
              $kur = $peg;
echo "<br>>Nama kurir: ".$kur->nama, "\n";
              echo "<br>Gaji: Rp. ".strval($kur->gaji), "\n";
     public static
     function main($args)
         echo "Aini Azzah - 21091397006";
         echo "<br/>br>", "<br/>$peg1 = new Manajer("Hendrawan", 8000000);
         Soal1::Proses($peg1);
         echo "<br>";
$peg2 = new Kurir("Sarah", 24000000);
         Soal1::Proses($peg2);
Soal1::main(array());
```

Output



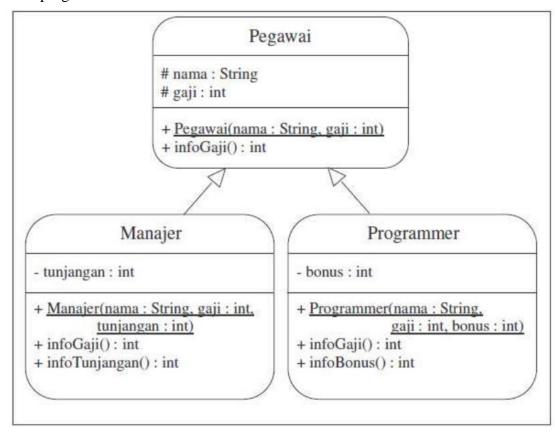
Soal 1

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Nama manajer: Hendrawan Tunjangan: Rp. 8000000

Nama kurir: Sarah Gaji: Rp. 24000000

2. Buat program berdasarkan UML berikut

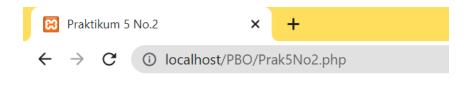


Source Code

```
♣ Prak5No2.php ×
🜳 Prak5No2.php > 🚱 html > 🤣 body > 😭 div.container > 😭 Bayaran > 🕅 main
     <!-- Aini Azzah / 2109139700 / 2021 B -->
      <!DOCTYPE html>
     <html lang="id">
<head>
         <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 No.2</title>
           <div class="container">
              <h2>Soal 2</h2>
                  class Pegawai
                      public $nama;
                      public $gaji;
                       public function __construct($nama, $gaji)
                           $this->nama = $nama;
                          $this->gaji = $gaji;
                       public function infoGaji()
                           return $this->gaji;
```

```
class Manajer extends Pegawai
    private $tunjangan;
    public function __construct($nama, $gaji, $tunjangan)
        parent::__construct($nama, $gaji);
        $this->tunjangan = $tunjangan;
    public function infoGaji()
        return $this->gaji;
    public function infoTunjangan()
        return $this->tunjangan;
class Programmer extends Pegawai
    private $bonus;
    public function __construct($nama, $gaji, $bonus)
        parent::__construct($nama, $gaji);
        $this->bonus = $bonus;
    public function infoGaji()
        return $this->gaji;
    public function infoBonus()
        return $this->bonus;
class Bayaran
    public function hitungBayaran($peg)
        $uang = $peg->infoGaji();
       return $uang;
    public static function main($args)
        echo "Aini Azzah - 21091397006";
        $man = new Manajer("Budi", 7000000, 500000);
        $prog = new Programmer("Joko", 2000000, 8000000);
        echo "<br>";
        $hr = new Bayaran();
        echo "<br/>
Gaji untuk Manajer Bernama ". $man->nama." : Rp. "
        .strval($hr->hitungBayaran($man)) , "\n";
        echo "<br>";
        echo "<br/>br>Gaji untuk Programmer Bernama ".$prog->nama. " : Rp. "
        .strval($hr->hitungBayaran($prog)) , "\n";
Bayaran::main(array());
```

Output



Soal 2

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Gaji untuk Manajer Bernama Budi : Rp. 7000000

Gaji untuk Programmer Bernama Joko : Rp. 2000000