LAPORAN PRAKTIKUM 5

Object Oriented Programming



Oleh:

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PROGRAM STUDI D4 MANAJEMEN
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1. Source Code

polymorphic_argument.php

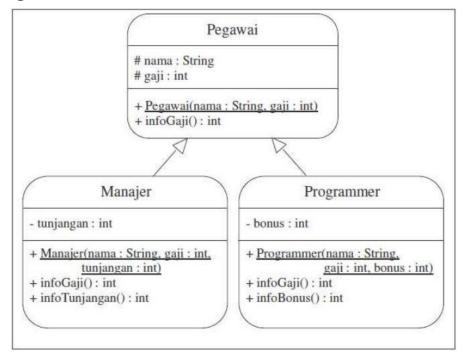
```
class Pegawai
   public $name;
   public function construct($name)
       $this->name = $name;
   public function getName()
      return $this->name;
class Manager extends Pegawai
   public $tunjangan;
   public function __construct($name, $tunjangan)
       parent::__construct($name);
       $this->tunjangan = $tunjangan;
   public function getTunjangan()
      return $this->tunjangan;
class Kurir extends Pegawai
   public $gaji;
   public function __construct($name, $gaji)
       parent:: construct($name);
       $this->gaji = $gaji;
   public function getGaji()
       return $this->gaji;
```

```
class SoalNo1
   public static
   function Proses($peg)
       if ($peg instanceof Manager)
            man = peg;
           echo "<br>Nama Manager: ".$man->name, "\n";
           echo "<br/>br>Tunjangan: RP. ".strval($man->tunjangan),
"\n";
       else if ($peg instanceof Kurir)
            sum = peg;
           echo "<br>Nama Kurir: ".$kur->name, "\n";
           echo "<br/>Gaji= RP. ".strval($kur->gaji), "\n";
   public static
   function main($args)
       echo "<br>", "<br>";
       $peg1 = new Manager("Rendi", 20000000);
       SoalNo1::Proses($peq1);
       echo "<br>", "<br>";
       $peg2 = new Kurir("Mahendra", 15000000);
       SoalNo1::Proses($peg2);
SoalNo1::main(array());
```

Analisa

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

2. Buat program berdasarkan UML berikut



Source Code

uml.php

```
<?php

class Pegawai
{
    public $name;
    public $gaji;
    public function __construct($name, $gaji)
    {
        $this->name = $name;
        $this->gaji = $gaji;
    }
    public function infoGaji()
    {
        return $this->gaji;
    }
}

class Manager extends Pegawai
{
    private $tunjangan;
    public function __construct($name, $gaji, $tunjangan)
    {
        parent::_construct($name, $gaji);
    }
}
```

```
$this->tunjangan = $tunjangan;
   public function infoGaji()
       return $this->gaji;
   public function infoTunjangan()
       return $this->tunjangan;
class Programmer extends Pegawai
   private $bonus;
   public function construct($name, $gaji, $bonus)
       parent::__construct($name, $gaji);
       $this->bonus = $bonus;
   public function infoBonus()
       return $this->bonus;
class Bayaran
   public function hitungBayaran($peg)
       $uang = $peg->infoGaji();
       return $uang;
   public static function main($args)
       echo "21091397071", "\n";
       echo "<br>", "<br>";
       $man = new Manager("Rendi", 20000000, 45);
       $prog = new Programmer("Bariq", 18000000, 30);
       $hr = new Bayaran();
       echo "<br/>br>Gaji Manager ". $man->name." : RP.
".strval($hr->hitungBayaran($man)), "\n";
       echo "<br/>Gaji Programmer ". $prog->name." : RP.
.strval($hr->hitungBayaran($prog)), "\n";
```

```
}
Bayaran::main(array());
?>
```

Analisa

Program diatas adalah penerapan inheritance dengan konsep overriding yang terdapat parent dan child di dalam nya, dimana pemanggilan constructor 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.

Post to GitHub:

https://github.com/mahendrarendi/PBO_Praktikum-5/tree/main