# LAPORAN PRAKTIKUM 4

" Pemograman Berorientasi Objek"



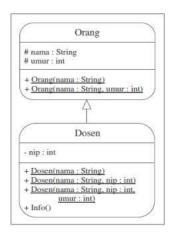
Oleh:

**Dian Nur Safitri (21091397044)** 

# PRODI MANAJEMEN INFORMATIKA FAKULTAS VOKASI UNIVERSITAS NEGERI SURABAYA 2022

#### Praktikum 4 - PBO

#### 1. Buatlah program berdasarkan UML berikut



#### **Source Code**

• PHP

```
$\frac{32}{$dosen1 = new Dosen('Rava', 37, 20051397019);}{$dosen2 = new Dosen('Safira', 29, 20051397119);}{$\frac{3}{3}}$$
$\frac{3}{4}$$
$\frac{3}{4}$$
$\frac{3}{6}$$
$\frac{6}{1}$$
$\frac{6}{1}$$
$\frac{6}{1}$$
$\frac{1}{6}$$
$\f
```

#### • CSS

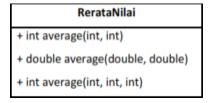
## • Output



#### Analisis

Menggunakan kata kunci super di konstruktor dan method, pada program tersebut masing-masing ditambahkan konstruktor dengan paramaternya.

## 2. Buatlah Program berdasarkan UML dibawah ini



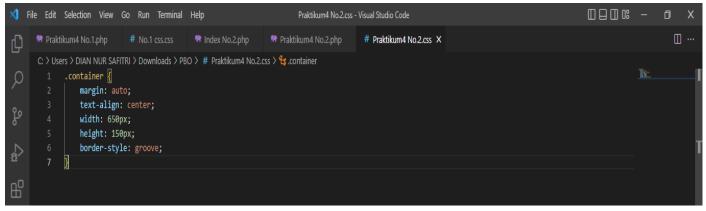
#### **Source Code**

• PHP

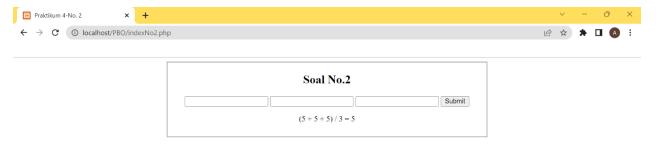
```
| File | Roll | Selection | View | Go | Run | Terminal | Help | Index No.2.php - Visual Studio Code | Image |
```

```
X File Edit Selection View Go Run Terminal Help
                                                                       Praktikum4 No.2.php - Visual Studio Code
                             # No.1 css.css
                                             📅 Index No.2.php
                                                                Praktikum4 No.2.php X
      C: > Users > DIAN NUR SAFITRI > Downloads > PBO > ♥ Praktikum4 No.2.php
Q
                 class RerataNilai {
                    protected $value, $value2;
                     public function __construct($value, $value2){
                        $this->value = $value;
                         $this->value2 = $value2;
                     public function average($value3 = 0){
                         if ($value3 == 0) {
                             return $str . ($this->value += $this->value2 += $value3 ) / 3;
        26
                     public function __construct($value, $value2){
                        parent::__construct($value, $value2);
                    public function average($value3 = 0){
                        return parent::average($value3);
                                                                                                                                   Ln 2, Col 17 Spaces: 4 UTF-8 CRLF PHP 尽 🚨
⊗0∆0 ₺
```

• CSS



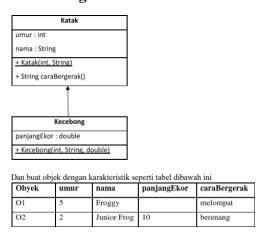
#### • Output



#### Analisis

Di atas adalah program dengan nama method boleh Sama, Tapi Jumlah parameter mesti berbeda nilai yang di Return harus mempunyai tipe yang sama.

# 3. Buatlah Program berdasarkan UML dibawah ini



#### **Source Code**

#### • PHP

```
Index No.3.php - Visual Studio Code
                                                                                                                                  m Index No.3.php X
       9 <html lang="id">
      <thead>
Objek
             Umur
\td>Nama
             Panjang Ekor
            Cara Bergerak

              <;=$katak->getUmur() ?> 
              <?=$katak->getnama() ?> 
             -
-
-

            02

      46 
47 </body>
48 </html>
⊗0∆0 ♣
                                                                                                                     Ln 16, Col 23 Spaces: 4 UTF-8 CRLF PHP 🛱 🚨
```

```
XI File Edit Selection View Go Run Terminal Help
                                                                        Praktikum4 No.3.php - Visual Studio Code
                                                                                                                                    Praktikum4 No.3.php X
             class Katak{
                protected $umur, $nama;
                 public function __construct($umur, $nama){
                     $this->umur = $umur;
                     $this->nama = $nama;
                 public function getUmur(){
                 public function getNama(){
                    return $this->nama:
                 public function caraBergerak(){
             class Kecebong extends Katak{
                private $panjangEkor;
                 public function __construct($umur, $nama, $ekor){
$this->panjangEkor = $ekor;
                 parent::__construct($umur, $nama);
                 public function getpanjangekor(){
                    return $this->panjangEkor;
                 public function carabergerak(){
                    return 'Berenang';
            $katak = new katak(5, 'Froggy');
             $kecebong = new kecebong(5, 'Junior Froggy', 10);
⊗0∆0 ₺
                                                                                                                                     Ln 1, Col 22 Spaces: 4 UTF-8 CRLF PHP 🛱 🚨
```

#### CSS

# • Output



#### • Analisis

Keyword super tidak bisa digunakan secara langsung didalam method static seperti pada method main, jadi harus di panggil pada method void atau return terlebih dahulu lalu panggil pada method main/static.