

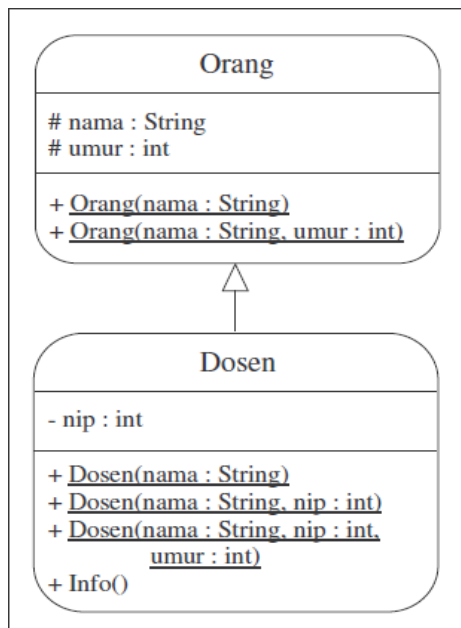
Nama : FIFIT SYAFAATY

Nim : 21091397001

Kelas : 2021 A

TUGAS PRAKTIKUM 4

1. Buat program berdasarkan UML berikut



Source Code

- Php

```
D:\Xampp\htdocs\praktikum 4\prak4 no1.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

<< ▶ prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php
1 <!-- FIFIT SYAFAATY
2 21091397001 -->
3
4 <!DOCTYPE html>
5 <html lang="id">
6 <head>
7 <link rel="stylesheet" type="text/css" href="prak4 no1.css">
8 <title>Praktikum 4</title>
9 </head>
10 <body>
11 <div class="container">
12 <h2>Soal No.1</h2>
13 <?php
14 class Orang {
15     protected $nama,$umur;
16     public function __construct($nama,$umur){
17         $this->nama = $nama;
18         $this->umur = $umur;
19     }
20 }
21
22 class Dosen extends Orang {
23     private $nip;
24     public function __construct($nama, $umur, $nip) {
25         $this->nip = $nip;
26         parent::__construct($nama, $umur);
27     }
28
29     public function hasil() {
30         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
31     }
32 }
33
34 $dosen1 = new Dosen('Rahadian Bisma', 35, 2015041003);
```

```
D:\Xampp\htdocs\praktikum 4\prak4 no1.php - Sublime Text (UNREGISTERED)
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prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php

34 $dosen1 = new Dosen('Rahadian Bisma', 35, 2015041003);
35 $dosen2 = new Dosen('Dini Kinati Fardah', 35, 2015042006);
36 $dosen3 = new Dosen('Ferly Isnomo Abdi', 30, 2019031016);
37
38 echo $dosen1->hasil();
39 echo '<br> <br>';
40 echo $dosen2->hasil();
41 echo '<br> <br>';
42 echo $dosen3->hasil();
43 echo '<br> <br>';
44
45 >>
46 </div>
47 </body>
48 </html>
```

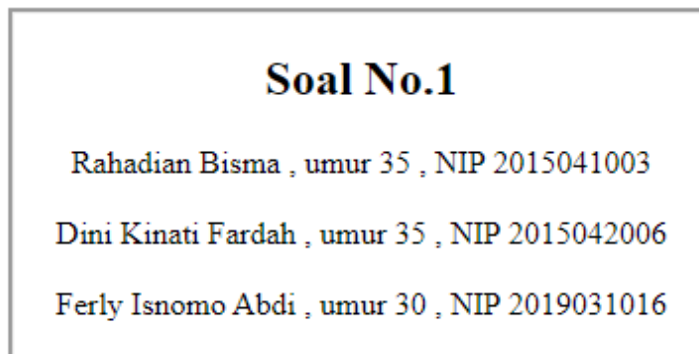
- **Css**

```
D:\Xampp\htdocs\praktikum 4\prak4 no1.css - Sublime Text (UNREGISTERED)
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prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php

1 body {
2   align-items: center;
3 }
4 h2 {
5   text-align: center;
6 }
7
8 .container {
9   margin: auto;
10  text-align: center;
11  width: 350px;
12  border-style: groove;
13 }
```

- **Output**



- **Analisa**

Analisa Menggunakan kata kunci super di konstruktor dan method, pada program tersebut masing-masing kita tambahkan konstruktor dengan paramaternya

2. Buat program berdasarkan UML berikut

RerataNilai
+ int average(int, int)
+ double average(double, double)
+ int average(int, int, int)

Source Code

- Php

```
D:\xampp\htdocs\praktikum 4\index no2.php - Sublime Text (UNREGISTERED)
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prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php x prak4 no2.php x

1 <!-- FIFIT SYAFAATY
2 21091397001 -->
3
4 <?php
5     require_once 'prak4 no2.php';
6 >
7
8 <html lang="id">
9 <head>
10     <link rel="stylesheet" href="prak4 no2.css">
11     <title>Praktikum 4</title>
12 </head>
13 <body>
14 <div class="container">
15 <h2>Soal No.2</h2>
16 <div class="form">
17     <form action="" method="post">
18         <input type="number" name="input1">
19         <input type="number" name="input2">
20         <input type="number" name="input3">
21         <button type="submit" name="submit">Submit</button>
22     </form>
23 </div>
24
25     <?php
26         if (isset($_POST['submit'])) {
27             if (!isset($_POST['input3'])) {
28                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
29                 echo $value1->average(0);
30             } else {
31                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
32                 echo $value1->average($_POST['input3']);
33             }
34         }
35     }
36 </div>
37 </body>
38 </html>
```

```
D:\xampp\htdocs\praktikum 4\prak4 no2.php - Sublime Text (UNREGISTERED)
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prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php x prak4 no2.php x

1 <!-- FIFIT SYAFAATY
2 21091397001 -->
3
4 <?php
5
6 class RerataNilai {
7     protected $value, $value2;
8     public function __construct($value, $value2){
9         $this->value = $value;
10        $this->value2 = $value2;
11    }
12
13    public function average($value3 = 0){
14        if ($value3 == 0) {
15            $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
16            return $str . ($this->value + $this->value2) / 2;
17        } else {
18            $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
19            return $str . ($this->value + $this->value2 + $value3) / 3;
20        }
21    }
22 }
23
24
25
26 class RerataNilai2 extends RerataNilai{
27     public function __construct($value, $value2){
28         parent::__construct($value, $value2);
29     }
30
31     public function average($value3 = 0){
32         return parent::average($value3);
33     }
34 }
```

- **Css**

```
D:\Xampp\htdocs\praktikum 4\prak4 no2.css - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php x pra
1 .container {
2   margin: auto;
3   text-align: center;
4   width: 650px;
5   height: 150px;
6   border-style: groove;
7 }
```

- **Output**

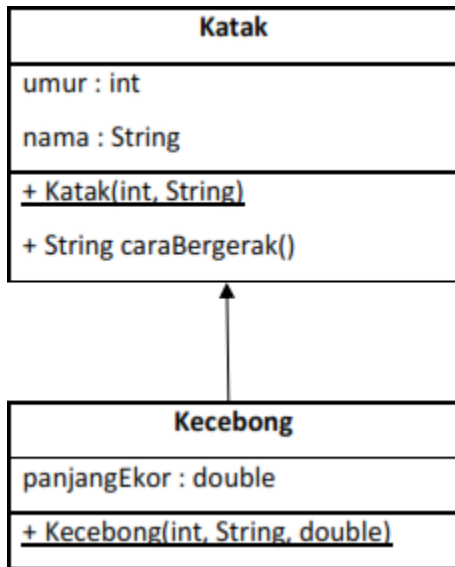
Soal No.2

$$(12 + 10 + 10) / 3 = 14.666666666666667$$

- **analisa**

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

3. Buat program berdasarkan UML berikut



Dan buat objek dengan karakteristik seperti tabel dibawah ini

Obyek	umur	nama	panjangEkor	caraBergerak
O1	5	Froggy		melompat
O2	2	Junior Frog	10	berenang

Source Code

- Php

```

D:\xampp\htdocs\praktikum 4\index no3.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

1 <!-- FIFIT SYAFAATY
2 21091397001 -->
3
4 <?php
5     require_once 'prak4 no3.php';
6 >
7
8 <html lang="id">
9 <head>
10     <link rel="stylesheet" type="text/css" href="prak4 no3.css">
11     <title>Praktikum 4</title>
12 </head>
13 <body>
14 <h2><center>Soal No.3</center></h2>
15 <table align="center">
16
17 <tr align="center">
18     <thead>
19         <td>Objek</td>
20         <td>Umur</td>
21         <td>Nama</td>
22         <td>Panjang Ekor</td>
23         <td>Cara Bergerak</td>
24     </thead>
25 </tr>
26
27 <tbody>
28 <tr>
29     <td>O1</td>
30     <td><?=$katak->getUmur() ?> </td>
31     <td><?=$katak->getnama() ?> </td>
32     <td></td>
33     <td><?=$katak->carabengerak() ?> </td>
34 </tr>
35
  
```

```
D:\Xampp\htdocs\praktikum 4\index no3.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php x prak4 no3.php x

34 </tr>
35
36 <tr>
37 <td>02</td>
38 <td><?=$kecebong->getUmur() ?></td>
39 <td><?=$kecebong->getNama() ?></td>
40 <td><?=$kecebong->getpanjangekor() ?></td>
41 <td><?=$kecebong->carabergarak() ?></td>
42 </tr>
43 </tbody>
44
45 </table>
46 </body>
47 </html>
```

```
D:\Xampp\htdocs\praktikum 4\prak4 no3.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php x prak4 no3.php x

1 <!-- FIFIT SYAFAATY
2 21091397001 -->
3
4 <?php
5
6 class Katak{
7     protected $umur, $nama;
8     public function __construct($umur, $nama){
9         $this->umur = $umur;
10        $this->nama = $nama;
11    }
12    public function getUmur(){
13        return $this->umur;
14    }
15    public function getNama(){
16        return $this->nama;
17    }
18    public function caraBergarak(){
19        return 'Melompat';
20    }
21 }
22
23 class Kecebong extends Katak{
24     private $panjangEkor;
25     public function __construct($umur, $nama, $ekor){
26         $this->panjangEkor = $ekor;
27         parent::__construct($umur, $nama);
28     }
29     public function getpanjangekor(){
30         return $this->panjangEkor;
31     }
32     public function carabergarak(){
33         return 'Berenang';
34     }
35 }
```

```
32     public function carabergarak(){
33         return 'Berenang';
34     }
35 }
36
37 $katak = new Katak(5, 'Froggy');
38 $kecebong = new Kecebong(5, 'Junior Froggy', 10);
39
40 ?>
```

- ## Css

```
D:\Xampp\htdocs\praktikum 4\prak4 no3.css - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
prak4 no1.php x prak4 no1.css x prak4 no2.php x prak4 no2.css x index no2.php x prak4 no3.php x

1 h2{
2     margin: auto;
3     text-align: center;
4     padding-bottom: 10px;
5 }
6
7 .table{
8     margin: auto;
9     font-family: sans-serif;
10    border-collapse: collapse;
11 }
12
13 .table, td{
14     border: 1px solid;
15     padding: 8px 10px;
16 }
17
18 thead{
19     font-weight: bold;
20 }
```

- **Output**

Soal No.3

Objek	Umur	Nama	Panjang Ekor	Cara Bergerak
01	5	Froggy	-	Melompat
02	5	Junior Froggy	10	Berenang

- **Analisa**

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