

LAPORAN PRAKTIKUM 4  
PEMROGRAMAN BERORIENTASI OBYEK



OLEH :

TEGUH ALDINTO (21091397076)

PROGRAM STUDI D4 MANAJEMEN INFORMATIKA

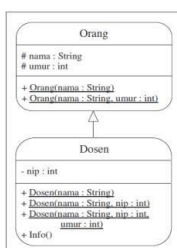
FAKULTAS VOKASI

UNIVERSITAS NEGERI SURABAYA

2022

**PRAKTIKUM 4 PBO**

1. Buatlah program berdasarkan UML dibawah ini:



Source code

## - Php

The image displays two screenshots of a Visual Studio Code editor window, showing a PHP file named `prak4 no1.php` and a PowerShell terminal.

**Top Screenshot:**

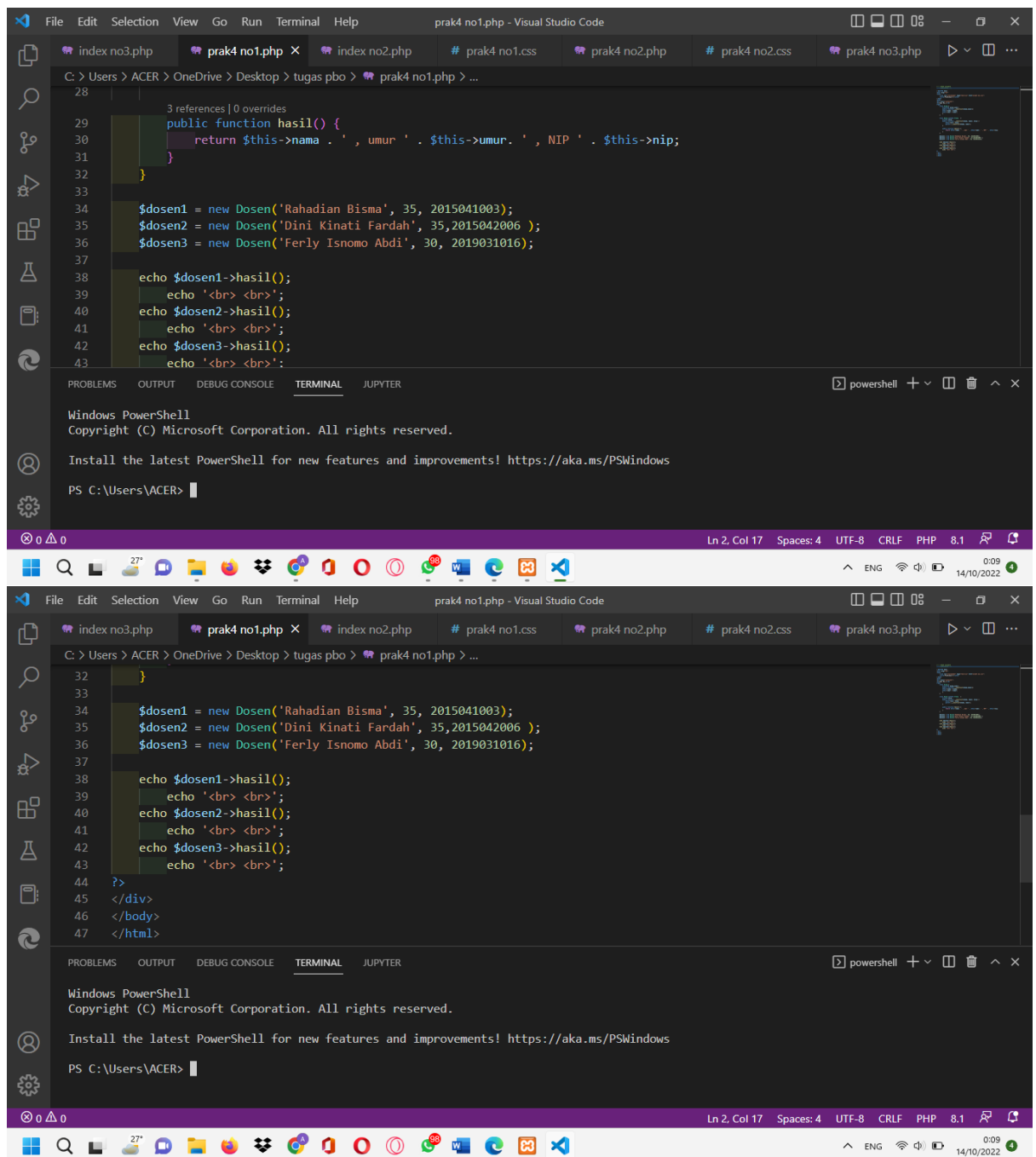
- The editor shows the following PHP code:

```
1 <!-- TEGUH ALDIANTO
2 21091397076 -->
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;
```
- The terminal shows the PowerShell prompt: `PS C:\Users\ACER>`

**Bottom Screenshot:**

- The editor shows the following PHP code:

```
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 }
```
- The terminal shows the PowerShell prompt: `PS C:\Users\ACER>`



- Css

```

29     public function hasil() {
30         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
31     }
32 }
33
34 $dosen1 = new Dosen('asha', 20, 2015041068);
35 $dosen2 = new Dosen('zesyka', 25, 2015042010 );
36 $dosen3 = new Dosen(['Rahmadila', 19, 2019031004]);
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 ?>

```

## - Output

Soal NO 1
Asha berumur 20 dengan NIP 21091397068
Zesyca berumur 25 dengan NIP 21091397010
Rahmadila berumur 19 dengan NIP 21091397004

## - Analisis

Menggunakan kata kunci super di konstruktor dan method, pada program tersebut masingmasing kita tambahkan konstruktor dengan paramaternya.

2. Buatlah program berdasarkan uml dibawah ini:

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

Course code

## - Php

The image displays two screenshots of a Visual Studio Code editor window, showing PHP code for a web application.

**Top Screenshot:** The editor shows the file `prak4 no2.php`. The code includes a PHP class `RerataNilai` with a `protected $value, $value2;` property and a `public function __construct($value, $value2){` method. It also features a `public function average($value3 = 0){` method with an `if ($value3 == 0) {` condition. The terminal shows the Windows PowerShell prompt.

**Bottom Screenshot:** The editor shows the file `index no2.php`. The code includes an HTML form with three input fields (`input type="number" name="input1"`, `input type="number" name="input2"`, `input type="number" name="input3"`) and a submit button (`button type="submit" name="submit">Submit</button>`). The PHP code includes `require_once 'prak4 no2.php';` and a conditional statement `if (isset($_POST['submit'])) {`.

- CSS

```

1  .container {
2      margin: auto;
3      text-align: center;
4      width: 650px;
5      height: 150px;
6      border-style: groove;
7  }

```

- Output

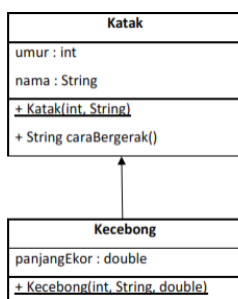
## Soal No.2

(8 + 3 + 3) / 3 = 5.3333333333333

- Analisis

Diatas 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:

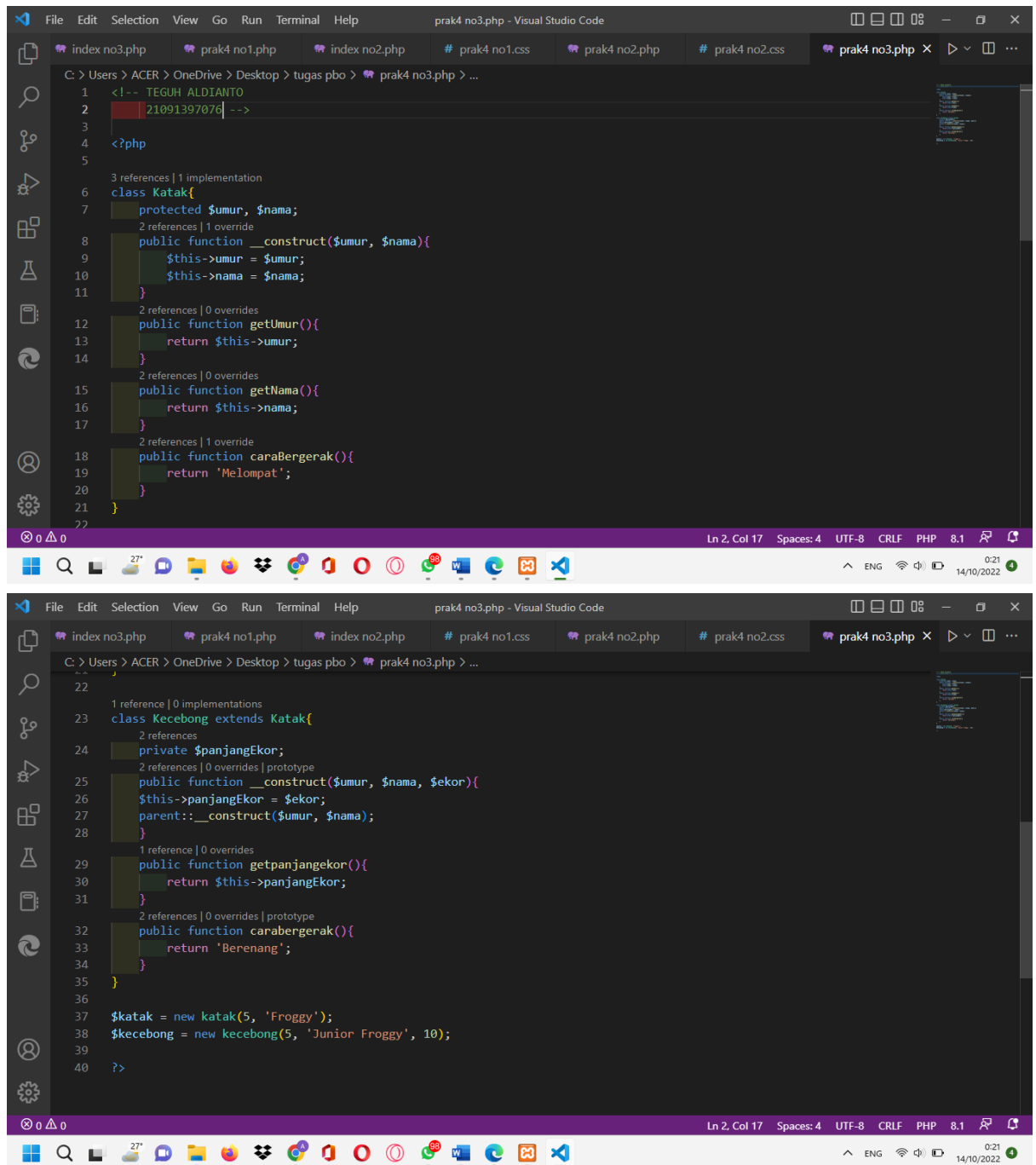


Dan buat objek dengan karakteristik seperti tabel dibawah ini

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

## Source code

### - Php



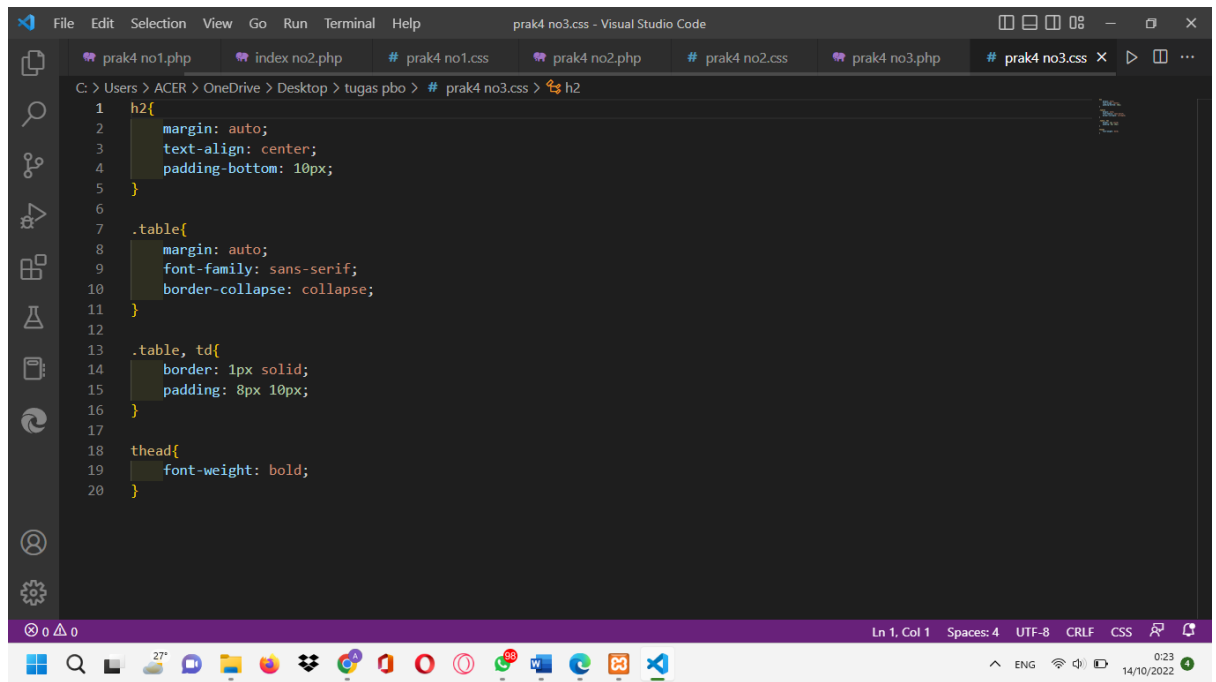
```
1 <!-- TEGUH ALDIANTO
2 21091397076 -->
3
4 <?php
5
6 class Katak{
7     protected $umur, $nama;
8     public function __construct($umur, $nama){
9         $this->umur = $umur;
10        $this->nama = $nama;
11    }
12    public function getUmur(){
13        return $this->umur;
14    }
15    public function getNama(){
16        return $this->nama;
17    }
18    public function caraBergerak(){
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 carabergerak(){
33         return 'Berenang';
34     }
35 }
36
37 $katak = new katak(5, 'Froggy');
38 $kecebong = new kecebong(5, 'Junior Froggy', 10);
39
40 ?>
```

### - Index

```
index no3.php - Visual Studio Code
index no3.php x prak4 no1.php index no2.php # prak4 no1.css prak4 no2.php # prak4 no2.css prak4 no3.php
C: > Users > ACER > OneDrive > Desktop > tugas pbo > index no3.php
1 <!-- TEGUH ALDIANTO
2 21091397076 -->
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>01</td>
30         <td><?=$katak->getUmur() ?> </td>
31         <td><?=$katak->getNama() ?> </td>
32         <td>-</td>
33         <td><?=$katak->carab Bergerak() ?> </td>
34     </tr>
35
36     <tr>
37         <td>02</td>
38         <td><?=$kecebong->getUmur() ?></td>
39         <td><?=$kecebong->getNama() ?></td>
40         <td><?=$kecebong->getpanjangekor() ?></td>
41         <td><?=$kecebong->carab Bergerak() ?></td>
42     </tr>
43 </tbody>
44 </table>
45 </body>
46 </html>
```

- Ccss





The screenshot shows the Visual Studio Code editor with a file named 'prak4 no3.css' open. The code defines styles for an `h2` element and a table. The `h2` is centered with a bottom padding of 10px. The table is centered, has a sans-serif font, and a collapsed border. Table cells have a 1px solid border and 8px 10px padding. The table has a `thead` section with bold text.

```
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

- 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.