

LAPORAN PRAKTIKUM 4

Kuliah Pemograman Berorientasi Obyek



Oleh :

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PROGRAM STUDI D4 MANAJEMEN INFORMATIKA

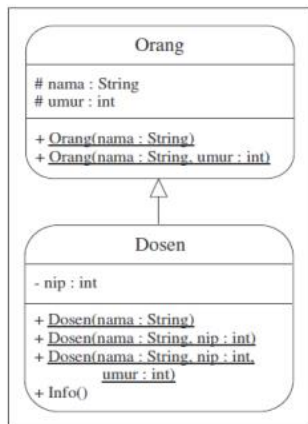
FAKULTAS VOKASI

UNIVERSITAS NEGERI SURABAYA

2022

Praktikum 4 PBO

1. Buatlah Program berdasarkan UML dibawah ini



Source Code

PHP

```
File Edit Selection View Go Run Terminal Help
No1Prak4.php - PBO - Visual Studio Code

C:\> xampp > htdocs > PBO > No1Prak4.php > Html > body > div.container > Orang > __construct
1 <!-- 21091399004_Shabinna Rahmadilla Santoso -->
2
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6 <link rel="stylesheet" type="text/css" href="No1Prak4.css">
7 <title>Praktikum 4</title>
8 </head>
9 <body>
10 <div class="container">
11 <h2>Soal 1</h2>
12
13
14 <?php
15
16 class Orang {
17     protected $nama,$umur;
18     public function __construct($nama,$umur){
19         $this->nama = $nama;
20         $this->umur = $umur;
21     }
22 }
23
24 class Dosen extends Orang {
25     private $nip;
26     public function __construct($nama, $umur, $nip) {
27         $this->nip = $nip;
28         parent::__construct($nama, $umur);
29     }
30
31     public function hasil() {
32         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
33     }
34 }
```

```
File Edit Selection View Go Run Terminal Help
No1Prak4.php - PBO - Visual Studio Code

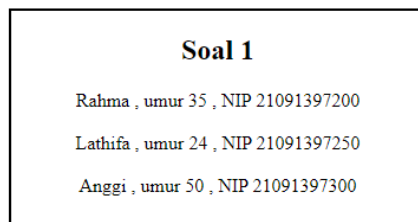
relasi.java No1Prak4.php X index no2.php prak4 no2.php index no3.php
C:\> xampp > htdocs > PBO > No1Prak4.php > html > body > div.container > Orang > _construct

30
31     public function hasil() {
32         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
33     }
34
35
36 $dosen1 = new Dosen('Rahma', 35, 21091397200);
37 $dosen2 = new Dosen('Lathifa', 24, 21091397250);
38 $dosen3 = new Dosen('Anggi', 50, 21091397300);
39
40 echo $dosen1->hasil();
41 echo '<br> <br>';
42 echo $dosen2->hasil();
43 echo '<br> <br>';
44 echo $dosen3->hasil();
45 echo '<br> <br>';
46
47 ?>
48
49 </div>
50 </body>
51 </html>
52
```

CSS

```
File Edit Selection View Go Run Terminal Help
relasi.java No1Prak4.php index no2.php
C:\> xampp > htdocs > PBO > # No1Prak4.css > h2
1 h2{
2     text-align: center;
3 }
4
5 .container{
6     margin: auto;
7     text-align: center;
8     height: 180px;
9     width: 350px;
10    border: 2px solid black;
11 }
12
```

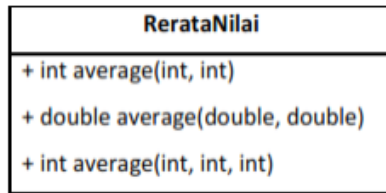
Output



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



Source Code



```
File Edit Selection View Go Run Terminal Help
* prak4 no2.php - PBO - Visual Studio Code

index no2.php • prak4 no2.php • index no3.php • prak4 no3.php # prak4 no3.css # prak4 no2.css #
C:\> xampp > htdocs > PBO > prak4 no2.php > ...
1 |!- Shabinnna Rahmadilla Santoso - 21091397004 -->
2
3 <?php
4
5 class RerataNilai {
6     protected $value, $value2;
7     public function __construct($value, $value2){
8         $this->value = $value;
9         $this->value2 = $value2;
10    }
11
12    public function average($value3 = 0){
13        if ($value3 == 0) {
14            $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
15            return $str . ($this->value + $this->value2) / 2;
16        } else {
17            $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
18            return $str . ($this->value + $this->value2 + $value3) / 3;
19        }
20    }
21 }
22
23
24
25 class RerataNilai2 extends RerataNilai{
26     public function __construct($value, $value2){
27         parent::__construct($value, $value2);
28     }
29
30     public function average($value3 = 0){
31         return parent::average($value3);
32     }
33 }
```

```
File Edit Selection View Go Run Terminal Help
index no2.php 2 • index no3.php prak4 no3.php # prak4 no3.css # prak4 no2.css # No1Prak4.cs

C:\> xampp > htdocs > PBO > index no2.php > ...
1 <!-- Shabinna Rahmadilla Santoso - 21091397004 -->
2 <?php
3     require_once 'prak4 no2.php';
4 >
5 <html lang="id">
6 <head>
7     <link rel="stylesheet" href="prak4 no2.css">
8     <title>Praktikum 4</title>
9 </head>
10 <body>
11 <div class="container">
12 <h2>Soal No.2</h2>
13 <div class="form">
14     <form action="" method="post">
15         <input type="number" name="input1">
16         <input type="number" name="input2">
17         <input type="number" name="input3">
18         <button type="submit" name="submit">Submit</button>
19     </form>
20 </div>
21
22 <?php
23     if (isset($_POST['submit'])) {
24         if (!$_POST['input3']) {
25             $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
26             echo $value1->average(0);
27         } else {
28             $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
29             echo $value1->average($_POST['input3']);
30         }
31     }
32 >
33 </div>
```

CSS

```
File Edit Selection View Go Run Terminal Help
index no3.php prak4 no3.php # prak4 no3.css # prak4 no2.css x
C:\> xampp > htdocs > PBO > # prak4 no2.css > .container
1 .container {
2     margin: auto;
3     text-align: center;
4     width: 650px;
5     height: 150px;
6     border-style: groove;
7 }
```

Output

madhaniasari_ x Praktikum 4 x PRAKTIKUM 4.pdf x logo unesa - Google Pene

ip

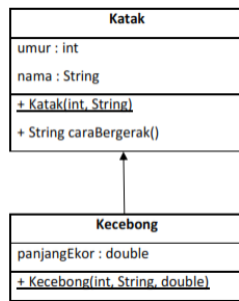
Soal No.2

$(3 + 5 + 5) / 3 = 2$

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

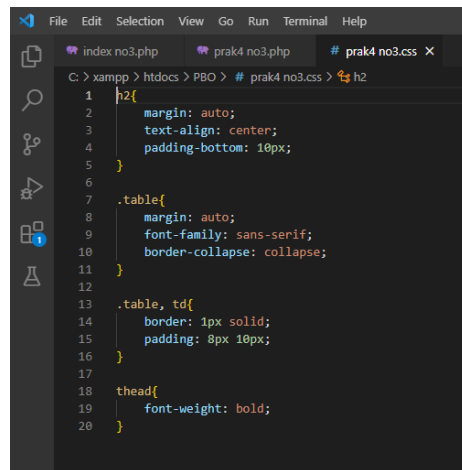


```
File Edit Selection View Go Run Terminal Help
index.no3.php prak4.no3.php X # prak4.no3.css
C:\> xampp > htdocs > PBO > prak4.no3.php > ...
22 class Kecebong extends Katak{
23     private $panjangEkor;
24     public function __construct($umur, $nama, $sekor){
25         $this->panjangEkor = $sekor;
26         parent::__construct($umur, $nama);
27     }
28     public function getpanjangekor(){
29         return $this->panjangEkor;
30     }
31     public function carabergarak(){
32         return 'Berenang';
33     }
34 }
35
36 $katak = new Katak(7, 'RahCan');
37 $kecebong = new Kecebong(8, 'Junior RahCan', 10);
38
39 ?>
```

```
File Edit Selection View Go Run Terminal Help index no3.php
index no3.php X prak4 no3.php # prak4 no3.css
C:\> xampp > htdocs > PBO > index no3.php > html
1 <!-- Shabinna Rahmadilla Santoso - 21091397004 -->
2
3 <?php
4     require_once 'prak4 no3.php';
5 >
6
7 <html lang="id">
8 <head>
9     <link rel="stylesheet" type="text/css" href="prak4 no3.css">
10    <title>Praktikum 4</title>
11 </head>
12 <body>
13 <h2><center>Soal No.3</center></h2>
14 <table align="center">
15
16 <tr align="center">
17     <thead>
18         <td>Objek</td>
19         <td>Umur</td>
20         <td>Nama</td>
21         <td>Panjang Ekor</td>
22         <td>Cara Bergerak</td>
23     </thead>
24 </tr>
25
26 <tbody>
27 <tr>
28     <td>01</td>
29     <td><?=$katak->getUmur() ?> </td>
30     <td><?=$katak->getnama() ?> </td>
31     <td>-</td>
32     <td><?=$katak->carabergarak() ?> </td>
33 </tr>
```

```
File Edit Selection View Go Run Terminal Help
index no3.php X prak4 no3.php # prak4 no3.css
C:\> xampp > htdocs > PBO > index no3.php > html
43 </thead>
44 </tr>
45
46 <tbody>
47 <tr>
48     <td>01</td>
49     <td><?=$katak->getUmur() ?> </td>
50     <td><?=$katak->getnama() ?> </td>
51     <td>-</td>
52     <td><?=$katak->carabergarak() ?> </td>
53 </tr>
54
55 <tr>
56     <td>02</td>
57     <td><?=$kecebong->getUmur() ?> </td>
58     <td><?=$kecebong->getNama() ?> </td>
59     <td><?=$kecebong->getpanjangekor() ?> </td>
60     <td><?=$kecebong->carabergarak() ?> </td>
61 </tr>
62 </tbody>
63 </table>
64 </body>
65 </html>
```

CSS



```
File Edit Selection View Go Run Terminal Help
index.no3.php prak4.no3.php # prak4.no3.css X
C:\> xampp > htdocs > PBO > # prak4.no3.css > h2
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	7	RahCan	-	Melompat
02	8	Junior RahCan	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.