

LAPORAN PRAKTIKUM 4

Kuliah Pemograman Berorientasi Obyek



Oleh :

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PROGRAM STUDI D4 MANAJEMEN INFORMATIKA

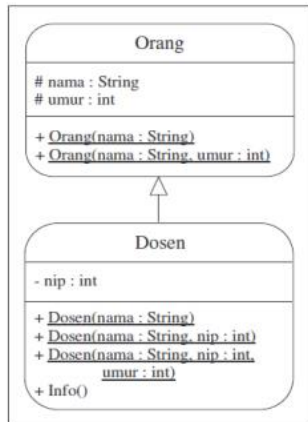
FAKULTAS VOKASI

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 Nomor1.php - Visual Studio Code
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phpNo2.php index no2.php index no3.php phpNo3.php Nomor1.php X
C: > xampp > htdocs > PBO > Nomor1.php > ...
1 <!-- 21091397028_Kania Meliana Fityanti -->
2
3 <!DOCTYPE html>
4 <html Lang="en">
5 <head>
6 <link rel="stylesheet" type="text/css" href="Nomor1.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 }
```

```
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phpNo2.php index no2.php index no3.php phpNo3.php Nomor1.php X #
C: > xampp > htdocs > PBO > Nomor1.php > ...
30
31     public function hasil() {
32         return $this->nama . ' , umur ' . $this->umur. ' , NIP ' . $this->nip;
33     }
34 }
35
36 $dosen1 = new Dosen('Kania', 30, 21091397010);
37 $dosen2 = new Dosen('Liana', 39, 21091397160);
38 $dosen3 = new Dosen('Yanti', 48, 21091397139);
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

```
e Edit Selection View Go Run Terminal Help Nomor1.css - Visual Studio Code
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phpNo2.php index no2.php index no3.php phpNo3.php Nomor1.php # No
C: > xampp > htdocs > PBO > # Nomor1.css > ...
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

Soal 1

Kania , umur 30 , NIP 21091397010

Liana , umur 39 , NIP 21091397160

Yanti , umur 48 , NIP 21091397139

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)

Source Code

 **PHP**

```
le Edit Selection View Go Run Terminal Help phpNo2.php - Visual Studio Code
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phpNo2.php x index no2.php index no3.php phpNo3.php Nomor1.php # Nomor1.css # Nomo
C: > Users > one > Downloads > phpNo2.php > ...
1 <!-- 21091397028_Kania Meliana Fityanti -->
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
```

```
ile Edit Selection View Go Run Terminal Help phpNo2.php - Visual Studio Code
stricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

phpNo2.php x index no2.php index no3.php phpNo3.php Nomor1.php #
C: > Users > one > Downloads > phpNo2.php > ...
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 }
34
35 ?>
```

```
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phpNo2.php index no2.php x index no3.php phpNo3.php Nomor1.php # Nomor1.css

C: > Users > one > Downloads > index no2.php > html > head > link
1 <!-- 21091397028_Kania Meliana Fityanti -->
2 <?php
3     require_once 'phpNo2.php';
4 ?>
5 <html Lang="id">
6 <head>
7     <link rel="stylesheet" href="Nomor2.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
23 <?php
24     if (isset($_POST['submit'])) {
25         if (!isset($_POST['input3'])) {
26             $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
27             echo $value1->average(0);
28         } else {
29             $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
30             echo $value1->average($_POST['input3']);
31         }
32     }
33 ?>
34 </div>
35 </body>
36 </html>
```

CSS

```
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phpNo2.php index no2.php index no3.php

C: > Users > one > Downloads > # Nomor2.css >
1 .container {
2     margin: auto;
3     text-align: center;
4     width: 650px;
5     height: 150px;
6     border-style: groove;
7 }
```

Output

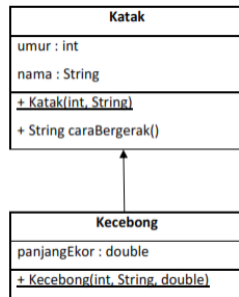
Soal No.2

$(4 + 4 + 4) / 3 = 4$

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 - Visual Studio Code
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phpNo2.php index no2.php index no3.php X phpNo3.php Nomor1.php # N

C: > Users > one > Downloads > index no3.php > html > head > link
1 <!-- 21091397028_Kania Meliana Fityanti -->
2
3 <?php
4     require_once 'phpNo3.php';
5 >?
6
7 <html Lang="id">
8 <head>
9     <link rel="stylesheet" type="text/css" href="Nomor3.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>
```



```
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phpNo2.php index no2.php index no3.php x phpNo3.php
C: > Users > one > Downloads > index no3.php > html > head > link

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

```
File Edit Selection View Go Run Terminal Help
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phpNo2.php index no2.php index no3.php phpNo3.php
C: > Users > one > Downloads > phpNo3.php > ...

1 <!-- 21091397028_Kania Meliana Fityanti -->
2
3 <?php
4
5 class Katak{
6     protected $umur, $nama;
7     public function __construct($umur, $nama){
8         $this->umur = $umur;
9         $this->nama = $nama;
10    }
11    public function getUmur(){
12        return $this->umur;
13    }
14    public function getNama(){
15        return $this->nama;
16    }
17    public function caraBergerak(){
18        return 'Melompat';
19    }
20 }
21
22 class Kecebong extends Katak{
23     private $panjangEkor;
24     public function __construct($umur, $nama, $ekor){
25         $this->panjangEkor = $ekor;
26         parent::__construct($umur, $nama);
27     }
28     public function getpanjangekor(){
29         return $this->panjangEkor;
30     }
31     public function carab Bergerak(){
32         return 'Berenang';
33     }
34 }
```

```
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phpNo2.php index no2.php index no3.php phpNo3.php > ...
C: > Users > one > Downloads > phpNo3.php > ...
33     }
34 }
35
36 $katak = new katak(7, 'Kodok');
37 $kecebong = new kecebong(8, 'Junior Kodok', 10);
38
39 ?>
```

CSS

```
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phpNo2.php index no2.php index no3.php
C: > Users > one > Downloads > # Nomor3.css > ...
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	Kodok	-	Melompat
02	8	Junior Kodok	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.