

LAPORAN PRAKTIKUM 4
MATA KULIAH PEMROGRAMAN BERORIENTASI
OBYEK



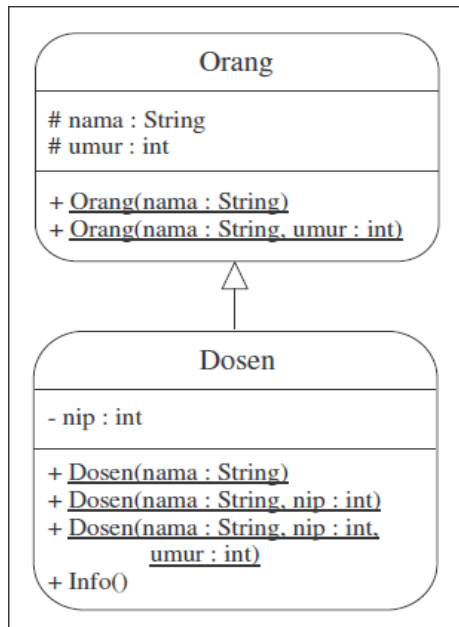
Oleh:
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Kelas A

D4 MANAJEMEN INFORMATIKA
UNIVERSITAS NEGERI SURABAYA
2021/2022

1. Buat program berdasarkan UML berikut



- Coding 1

```
terminal Help nomer1prak4.php - Dosen - Visual Studio Code
# nomer1.2.css nomer1prak4.php X
nomer1prak4.php
1 <!-- Revina Aurigha Firdaus (21091397003) -->
2
3 <!DOCTYPE html>
4 <html lang="id">
5 <head>
6 | <link rel="stylesheet" type="text/css" href="prak4 no1.css">
7 | <title>Praktikum 4</title>
8 </head>
9 <body>
10 <div class="container">
11 <h2>Soal No.1</h2>
12 <?php
13 | class Orang {
14 | | protected $nama,$umur;
15 | | public function __construct($nama,$umur){
16 | | | $this->nama = $nama;
17 | | | $this->umur = $umur;
18 | | }
19 | }
20
21 | class Dosen extends Orang {
22 | | private $nip;
23 | | public function __construct($nama, $umur, $nip) {
24 | | | $this->nip = $nip;
25 | | | parent::__construct($nama, $umur);
26 | | }
27
28 | | public function hasil() {
29 | | | return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
30 | | }
31 | }
32
```

```
# nomer1.2.css  nomer1prak4.php X
nomer1prak4.php
30     }
31 }
32
33 $dosen1 = new Dosen('ANDI IWAN NURHIDAYAT', 35, 2015041003);
34 $dosen2 = new Dosen('HAFIZHUDDIN ZUL FAHMI', 35, 2015042006 );
35 $dosen3 = new Dosen('I GDE AGUNG SRI SIDHIMANTRA', 30, 2019031016);
36
37 echo $dosen1->hasil();
38 | echo '<br> <br>';
39 echo $dosen2->hasil();
40 | echo '<br> <br>';
41 echo $dosen3->hasil();
42 | echo '<br> <br>';
43 ?>
44 </div>
45 </body>
46 </html>
```

- Coding 2

```
Terminal  Help  nomer1.2.css - Dosen
# nomer1.2.css X  nomer1prak4.php ●
# nomer1.2.css > .container
1  body {
2  |   align-items: center;
3  |   background-color: ■aliceblue;
4  | }
5  h2{
6  |   text-align: center;
7  | }
8
9  .container{
10 |   margin: auto;
11 |   text-align: center;
12 |   height: 180px;
13 |   width: 350px;
14 |   border-styl
```

- Output

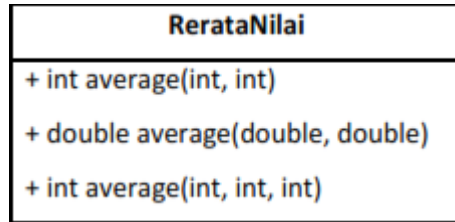
Soal No.1

ANDI IWAN NURHIDAYAT , umur 35 , NIP 2015041003

HAFIZHUDDIN ZUL FAHMI , umur 35 , NIP 2015042006

I GDE AGUNG SRI SIDHIMANTRA , umur 30 , NIP 2019031016

2. Buat program berdasarkan UML berikut



- Coding 1

```
nomer2.1.php • nomer2.2.php
nomer2.1.php
1 k!-- Revina Aurigha Firdaus (21091397003) --
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 }
34
35 ?>
```

```
nomer2.1.php • nomer2.2.php
nomer2.1.php
19         return $str . ($this->value + $this->value2 + $value3 ) / 3;
20     }
21 }
22 }
23
24
25 class RerataNilai2 extends RerataNilai{
26     public function __construct($value, $value2){
27         parent::__construct($value, $value2);
28     }
29
30     public function average($value3 = 0){
31         return parent::average($value3);
32     }
33 }
34
35 ?>
```

- Coding 2

```
nomer2.2.php
1 <!-- Revina Aurigha Firdaus (21091397003) -->
2
3 <?php
4 |     require_once 'prak4 no2.php';
5 | >
6
7 <html lang="id">
8 <head>
9 |     <link rel="stylesheet" href="nomer2.3.css">
10 |     <title>Praktikum 4</title>
11 </head>
12 <body>
13 <div class="container">
14 <h2>Soal No.2</h2>
15 <div class="form">
16 |     <form action="" method="post">
17 |         <input type="number" name="input1">
18 |         <input type="number" name="input2">
19 |         <input type="number" name="input3">
20 |         <button type="submit" name="submit">Submit</button>
21 |     </form>
22 | </div>
23
24 |     <?php
25 |         if (isset($_POST['submit'])) {
26 |             if (!$_POST['input3']) {
27 |                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
28 |                 echo $value1->average(0);
29 |             } else {
30 |                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
31 |                 echo $value1->average($_POST['input3']);
32 |             }
33 |         }
34 |     </div>
35 </div>
36 </body>
37 </html>
```

- Coding 3

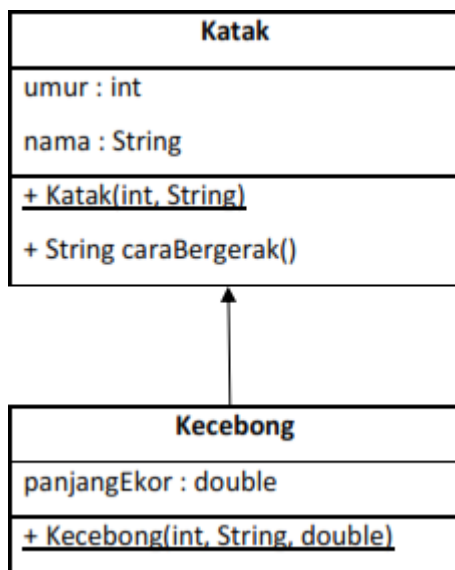
```
nomer2.1.php • nomer2.2.php • # no
# nomer2.3.css > .container
1 .container {
2     margin: auto;
3     text-align: center;
4     width: 650px;
5     height: 150px;
6     border-style: groove;
7 }
```

- Output

Soal No 2

Submit

3. Buat program berdasarkan UML berikut



- Coding 1

```
1 <!-- Revina Aurigha Firdaus (21091397003) -->
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 carabergerak(){
32         return 'Berenang';
33     }
34 }
```

```

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

```

- Coding 2

```

no3.2.php
1  <!-- Revina Aurigha Firdaus (21091397003) -->
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>

```



```

no3.2.php
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><?=$katak->carabergarak() ?> </td>
33 </tr>
34
35 <tr>
36     <td>02</td>
37     <td><?=$kecebong->getUmur() ?></td>
38     <td><?=$kecebong->getNama() ?></td>
39     <td><?=$kecebong->getpanjangekor() ?></td>
40     <td><?=$kecebong->carabergarak() ?></td>
41 </tr>
42 </tbody>
43
44 </table>
45 </body>
46 </html>

```

- Coding 3

```

# no3.3.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

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