

PEMROGRAMAN BERORIENTASI OBJEK
LAPORAN PRAKTIKUM 4

Ditulis Dalam Rangka Pemenuhan Tugas Mata Kuliah Pemrograman Berorientasi Objek



Dosen Pengampu

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Disusun Oleh :

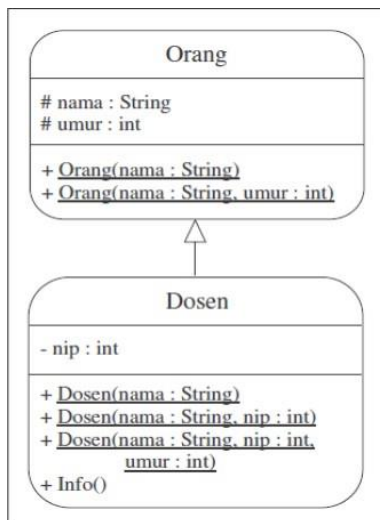
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PROGRAM STUDI MANAJEMEN INFORMATIKA
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1. Buat program berdasarkan UML berikut



Source Code

```

no1.php > html > body > div.container
1  <!DOCTYPE html>
2  <html lang="id">
3  <head>
4  |   <link rel="stylesheet" type="text/css" href="no1.css">
5  |   <title>Praktikum 4</title>
6  </head>
7  <body>
8  |   <div class="container">
9  |   <h2>Soal 1</h2>
10
11
12  <?php
13  |
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 {

```

```

no1.php > html > body > div.container
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('Aditya', 28, 24021397303);
35  |   $dosen2 = new Dosen('Wahyu', 35, 24021397307);
36  |   $dosen3 = new Dosen('Santoso', 33, 24021397309);
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>';

```

```

no1.php > html > body > div.container
30         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
31     }
32 }
33
34 $dosen1 = new Dosen('Aditya', 28, 24021397303);
35 $dosen2 = new Dosen('Wahyu', 35, 24021397307);
36 $dosen3 = new Dosen('Santoso', 33, 24021397309);
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
47 </div>
48 </body>
49 </html>

```

```

# no1.css > .container
1  body {
2      align-items: center;
3      background-color: #f0e68c;
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-style: groove;
15 }

```

Output



2. Buat program berdasarkan UML berikut

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

Source Code

```
no2(2).php > ...
1  <?php
2  |
3  class RerataNilai {
4      protected $value, $value2;
5      public function __construct($value, $value2){
6          $this->value = $value;
7          $this->value2 = $value2;
8      }
9      public function average($value3 = 0){
10         if ($value3 == 0) {
11             $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
12             return $str . ($this->value + $this->value2) / 2;
13         } else {
14             $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
15             return $str . ($this->value + $this->value2 + $value3) / 3;
16         }
17     }
18 }
19
20 class RerataNilai2 extends RerataNilai{
21     public function __construct($value, $value2){
22         parent::__construct($value, $value2);
23     }
24
25     public function average($value3 = 0){
26         return parent::average($value3);
27     }
28 }
29 ?>
```

```
no2.php > ...
1  <?php |
2      require_once 'no2(2).php';
3  ?>
4
5  <html lang="id">
6  <head>
7      <link rel="stylesheet" href="no2.css">
8      <title>Praktikum 4</title>
9  </head>
10 <body>
11 <div class="container">
12 <h2>Nomor 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>
```

```

no2.php > ...
4
5 <html lang="id">
6 <head>
7   <link rel="stylesheet" href="no2.css">
8   <title>Praktikum 4</title>
9 </head>
10 <body>
11 <div class="container">
12 <h2>Nomor 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>
34 </body>
35 </html>

```

```

# no2.css > .container
1 .container {
2   margin: auto;
3   text-align: center;
4   width: 650px;
5   height: 150px;
6   border-style: solid cornsilk;
7 }

```

Output

localhost/adityarws/php/praktikum_4/no2.php

Nomor 2

(50 + 50 + 50) / 3 = 50

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

```

no3(2).php > Katak > getNama
1  <?php
2
3  class Katak{
4      protected $umur, $nama;
5      public function __construct($umur, $nama){
6          $this->umur = $umur;
7          $this->nama = $nama;
8      }
9      public function getUmur(){
10         return $this->umur;
11     }
12     public function getNama(){
13         return $this->nama;
14     }
15     public function caraBergerak(){
16         return 'Melompat';
17     }
18 }
19
20 class Kecebong extends Katak{
21     private $panjangEkor;
22     public function __construct($umur, $nama, $ekor){
23         $this->panjangEkor = $ekor;
24         parent::__construct($umur, $nama);
25     }
26     public function getpanjangekor(){
27         return $this->panjangEkor;
28     }
29     public function carabergarak(){
30         return 'Berenang';
31     }
32 }

```

```

no3(2).php > Katak > getNama
17     }
18 }
19
20 class Kecebong extends Katak{
21     private $panjangEkor;
22     public function __construct($umur, $nama, $ekor){
23         $this->panjangEkor = $ekor;
24         parent::__construct($umur, $nama);
25     }
26     public function getpanjangekor(){
27         return $this->panjangEkor;
28     }
29     public function carabergarak(){
30         return 'Berenang';
31     }
32 }
33
34 $katak = new Katak(5, 'Froggy');
35 $kecebong = new Kecebong(5, 'Junior Froggy', 10);
36
37 ?>

```



```

no3.php > html > body > table > tr
1  <?php
2      require_once 'no3(2).php';
3  ?>
4
5  <html lang="id">
6  <head>
7      <link rel="stylesheet" type="text/css" href="no3.css">
8      <title>Praktikum 4</title>
9  </head>
10 <body>
11 <h2><center>Nomor 3</center></h2>
12 <table align="center">
13
14 <tr align="center" bgcolor="e3d268">
15     <td>Objek</td>
16     <td>Umur</td>
17     <td>Nama</td>
18     <td>Panjang Ekor</td>
19     <td>Cara Bergerak</td>
20 </tr>
21
22 <tr>
23     <td>01</td>
24     <td><?=$katak->getUmur() ?> </td>
25     <td><?=$katak->getnama() ?> </td>
26     <td>-</td>
27     <td><?=$katak->carabergarak() ?> </td>
28 </tr>
29
30 <tr>
31     <td>02</td>
32     <td><?=$kecebong->getUmur() ?></td>
33     <td><?=$kecebong->getNama() ?></td>

```

```

no3.php > html > body > table > tr
19     <td>01</td>
20     <td><?=$katak->getUmur() ?> </td>
21     <td><?=$katak->getnama() ?> </td>
22     <td>-</td>
23     <td><?=$katak->carabergarak() ?> </td>
24 </tr>
25
26 <tr>
27     <td>02</td>
28     <td><?=$kecebong->getUmur() ?></td>
29     <td><?=$kecebong->getNama() ?></td>
30     <td><?=$kecebong->getpanjangekor() ?></td>
31     <td><?=$kecebong->carabergarak() ?></td>
32 </tr>
33
34 </table>
35 </body>
36 </html>

```

```

# no3.css > .table
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 }

```

Output



Nomor 3

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