

Laporan Praktikum 4
Pemrograman Berorientasi Obyek



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Laporan praktikum 4

1. Kodingan PHP

```
1 <!-- Muvidha Fatmawati Putri (21091397011) -->
2
3 <!DOCTYPE html>
4 <html lang="id">
5 <head>
6     <link rel="stylesheet" type="text/css" href="/Muvidha FP(21091397011)_PBO_Praktikum 4">
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
19         public function __construct($nama,$umur){
20             $this->nama = $nama;
21             $this->umur = $umur;
22         }
23     }
24
25     class Dosen extends Orang {
26
27         private $nip;
28
29         public function __construct($nama, $umur, $nip) {
30             $this->nip = $nip;
31             parent::__construct($nama, $umur);
32         }
33
34         public function hasil() {
35             return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
36         }
37     }
38
39     $dosen1 = new Dosen('Putri', 42, 21091397011);
40     $dosen2 = new Dosen('Sarah', 39, 210913988);
41     $dosen3 = new Dosen('Adinda', 28, 21091397203);
42
43     echo $dosen1->hasil();
44     echo ' <br> <br>';
45     echo $dosen2->hasil();
46     echo ' <br> <br>';
47     echo $dosen3->hasil();
48     echo ' <br> <br>';
49
50 ?>
51 </div>
52 </body>
53 </html>
```

CSS

```
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-style: groove;
15 }
```

Output

Soal 1

Putri , umur 42 , NIP 21091397011

Sarah , umur 39 , NIP 210913988

Adinda , umur 28 , NIP 21091397203

Analisis

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

2. Kodingan PHP

```
1 <!-- Muvidha Fatmawati Putri (21091397011) -->
2
3
4 <?php
5
6 3 references | 1 implementation
7 class RerataNilai {
8     protected $value, $value2;
9     1 reference | 1 override
10     public function __construct($value, $value2){
11         $this->value = $value;
12         $this->value2 = $value2;
13     }
14
15     3 references | 1 override
16     public function average($value3 = 0){
17         if ($value3 == 0) {
18             $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
19             return $str . ($this->value += $this->value2 ) / 2;
20         } else {
21             $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
22             return $str . ($this->value += $this->value2 += $value3 ) / 3;
23         }
24     }
25 }
26
27 2 references | 0 implementations
28 class RerataNilai2 extends RerataNilai{
29     3 references | 0 overrides | prototype
30     public function __construct($value, $value2){
31         parent::__construct($value, $value2);
32     }
33
34     3 references | 0 overrides | prototype
35     public function average($value3 = 0){
36         return parent::average($value3);
37     }
38 }
39
40 <?
41
42 <html lang="id">
43 <head>
44     <title>Praktikum 4</title>
45 </head>
46 <body>
47     <div class="container">
48     <h2>Soal No 2</h2>
49     <div class="form">
50         <form action="" method="post">
51             <input type="number" name="input1">
52             <input type="number" name="input2">
53             <input type="number" name="input3">
54             <button type="submit" name="submit">Submit</button>
55         </form>
56     </div>
57
58     <?php
59         if (isset($_POST['submit'])) {
60             if (!isset($_POST['input3'])) {
61                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
62                 echo $value1->average(0);
63             } else {
64                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
65                 echo $value1->average($_POST['input3']);
66             }
67         }
68     </?php>
69
70 </div>
71 </body>
72 </html>
```

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

Analisis

Diatas adalah program dengan nama method boleh Sama, Tapi Jumlah parameter mesti berbeda nilai yang di Return harus mempunyai tipe yang sama.

3. Kodingan PHP

```
1 <!-- Muvridha-Fatmawati-Putri-(21091397011) --->
2
3 <?php
4
5 3 references | 1 implementation
6 class Katak{
7     protected $umur, $nama;
8     2 references | 1 override
9     public function __construct($umur, $nama){
10         $this->umur = $umur;
11         $this->nama = $nama;
12     }
13     2 references | 0 overrides
14     public function getUmur(){
15         return $this->umur;
16     }
17     2 references | 0 overrides
18     public function getNama(){
19         return $this->nama;
20     }
21     2 references | 1 override
22     public function caraBergerak(){
23         return 'Melompat';
24     }
25 }
26
27 1 reference | 0 implementations
28 class Kecebong extends Katak{
29     2 references
30     private $panjangEkor;
31     2 references | 0 overrides | prototype
32     public function __construct($umur, $nama, $ekor){
33         $this->panjangEkor = $ekor;
34         parent::__construct($umur, $nama);
35     }
36     1 reference | 0 overrides
37     public function getpanjangekor(){
38         return $this->panjangEkor;
39     }
40     2 references | 0 overrides | prototype
41     public function carabergeak(){
42         return 'Berenang';
43     }
44 }
45
46 $katak = new katak(5, 'Froggy');
47 $kecebong = new kecebong(5, 'Junior Froggy', 10);
48
49 ?>
50
51 <html lang="id">
52 <head>
53     <title>Praktikum 4</title>
54 </head>
55 <body>
56     <h2><center>No 3</center></h2>
57     <table align="center">
58     <tr align="center" bgcolor="iceblue">
59         <td>Objek</td>
60         <td>Umur</td>
61         <td>Nama</td>
62         <td>Panjang Ekor</td>
63         <td>Cara Bergerak</td>
64     </tr>
65
66     <tr>
67         <td>01</td>
68         <td><?=$katak->getUmur() ?> </td>
69         <td><?=$katak->getnama() ?> </td>
70         <td><?=$katak->carabergeak() ?> </td>
71     </tr>
72
73     <tr>
74         <td>02</td>
75         <td><?=$kecebong->getUmur() ?></td>
76         <td><?=$kecebong->getNama() ?></td>
77         <td><?=$kecebong->getpanjangekor() ?></td>
78         <td><?=$kecebong->carabergeak() ?></td>
79     </tr>
80 </table>
81 </body>
82 </html>
```

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 }

```

Output

No 3				
Kode	Unit	Nama	Panjang Ekst	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.