

Tugas Pemrograman Berorientasi Objek
Praktikum 4 (Overriding dan Overloading)



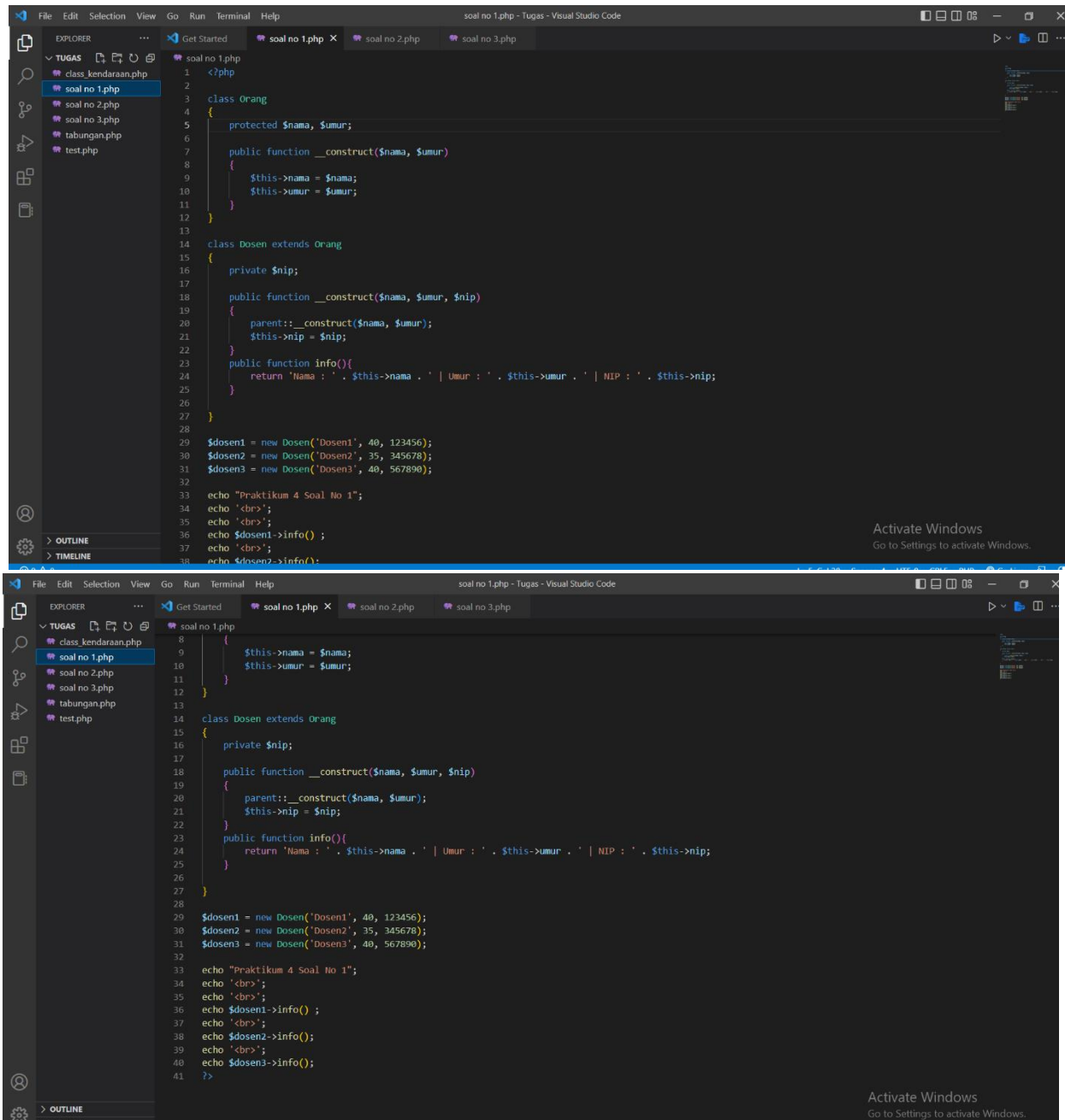
Disusun oleh :

Alwan Rofiqi 2021B

MANAJEMEN INFORMATIKA

Soal No. 1

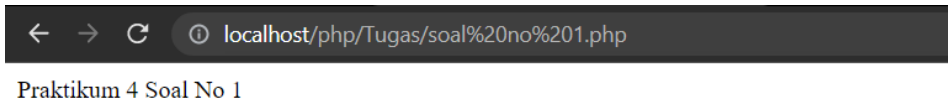
Input :



```
1 <?php
2
3 class Orang
4 {
5     protected $nama, $umur;
6
7     public function __construct($nama, $umur)
8     {
9         $this->nama = $nama;
10        $this->umur = $umur;
11    }
12
13
14 class Dosen extends Orang
15 {
16     private $nip;
17
18     public function __construct($nama, $umur, $nip)
19     {
20         parent::__construct($nama, $umur);
21         $this->nip = $nip;
22     }
23
24     public function info(){
25         return 'Nama : ' . $this->nama . ' | Umur : ' . $this->umur . ' | NIP : ' . $this->nip;
26     }
27
28
29 $dosen1 = new Dosen('Dosen1', 40, 123456);
30 $dosen2 = new Dosen('Dosen2', 35, 345678);
31 $dosen3 = new Dosen('Dosen3', 40, 567890);
32
33 echo "Praktikum 4 Soal No 1";
34 echo <br>;
35 echo <br>;
36 echo $dosen1->info() ;
37 echo <br>;
38 echo $dosen2->info();
39
```

```
8 {
9     $this->nama = $nama;
10    $this->umur = $umur;
11 }
12
13 class Dosen extends Orang
14 {
15     private $nip;
16
17     public function __construct($nama, $umur, $nip)
18     {
19         parent::__construct($nama, $umur);
20         $this->nip = $nip;
21     }
22
23     public function info(){
24         return 'Nama : ' . $this->nama . ' | Umur : ' . $this->umur . ' | NIP : ' . $this->nip;
25     }
26
27
28
29 $dosen1 = new Dosen('Dosen1', 40, 123456);
30 $dosen2 = new Dosen('Dosen2', 35, 345678);
31 $dosen3 = new Dosen('Dosen3', 40, 567890);
32
33 echo "Praktikum 4 Soal No 1";
34 echo <br>;
35 echo <br>;
36 echo $dosen1->info() ;
37 echo <br>;
38 echo $dosen2->info();
39 echo <br>;
40 echo $dosen3->info();
41 ?>
```

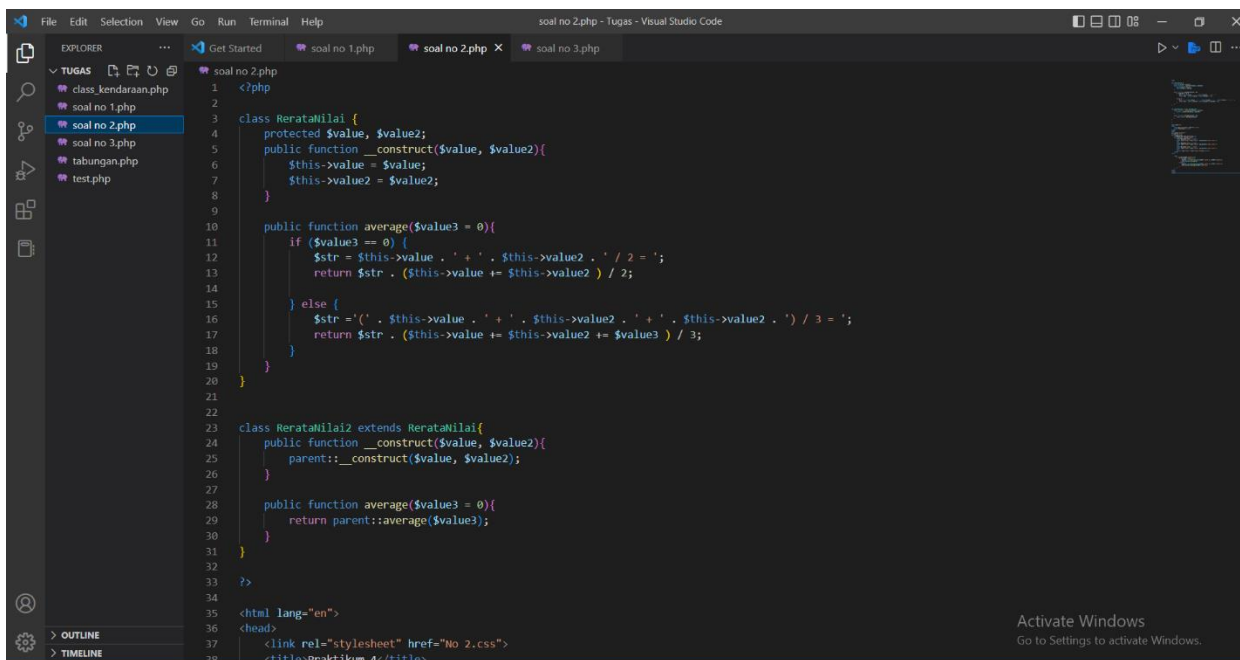
Ouput :



Nama : Dosen1 | Umur : 40 | NIP : 123456
Nama : Dosen2 | Umur : 35 | NIP : 345678
Nama : Dosen3 | Umur : 40 | NIP : 567890

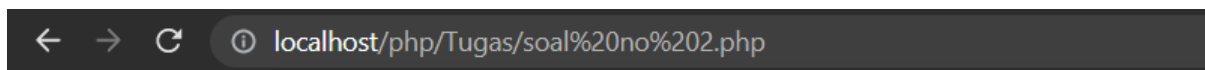
Soal No. 2

Input :



```
36 <head>
37   <link rel="stylesheet" href="No 2.css">
38   <title>Praktikum 4</title>
39 </head>
40 <body>
41   <div class="container">
42     <h4>Soal No 2</h4>
43     <div class="form">
44       <h3>MENGHITUNG RATA-RATA NILAI</h3>
45       <form action="" method="post">
46         <label>Masukkan nilai : </label>
47         <input type="number" name="input1" placeholder="input nilai 1">
48         <br>
49         <label>Masukkan nilai : </label>
50         <input type="number" name="input2" placeholder="input nilai 2">
51         <br>
52         <label>Masukkan nilai : </label>
53         <input type="number" name="input3" placeholder="input nilai 3">
54         <br>
55         <button type="submit" name="submit">Hitung</button>
56       </form>
57     </div>
58
59     <?php
60       if (isset($_POST['submit'])) {
61         if (!$_POST['input3']) {
62           $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
63           echo $value1->average(0);
64         } else {
65           $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
66           echo $value1->average($_POST['input3']);
67         }
68       }
69     >
70   </div>
71 </body>
72 </html>
```

Output :



Soal No 2

MENGHITUNG RATA-RATA NILAI

Masukkan nilai :

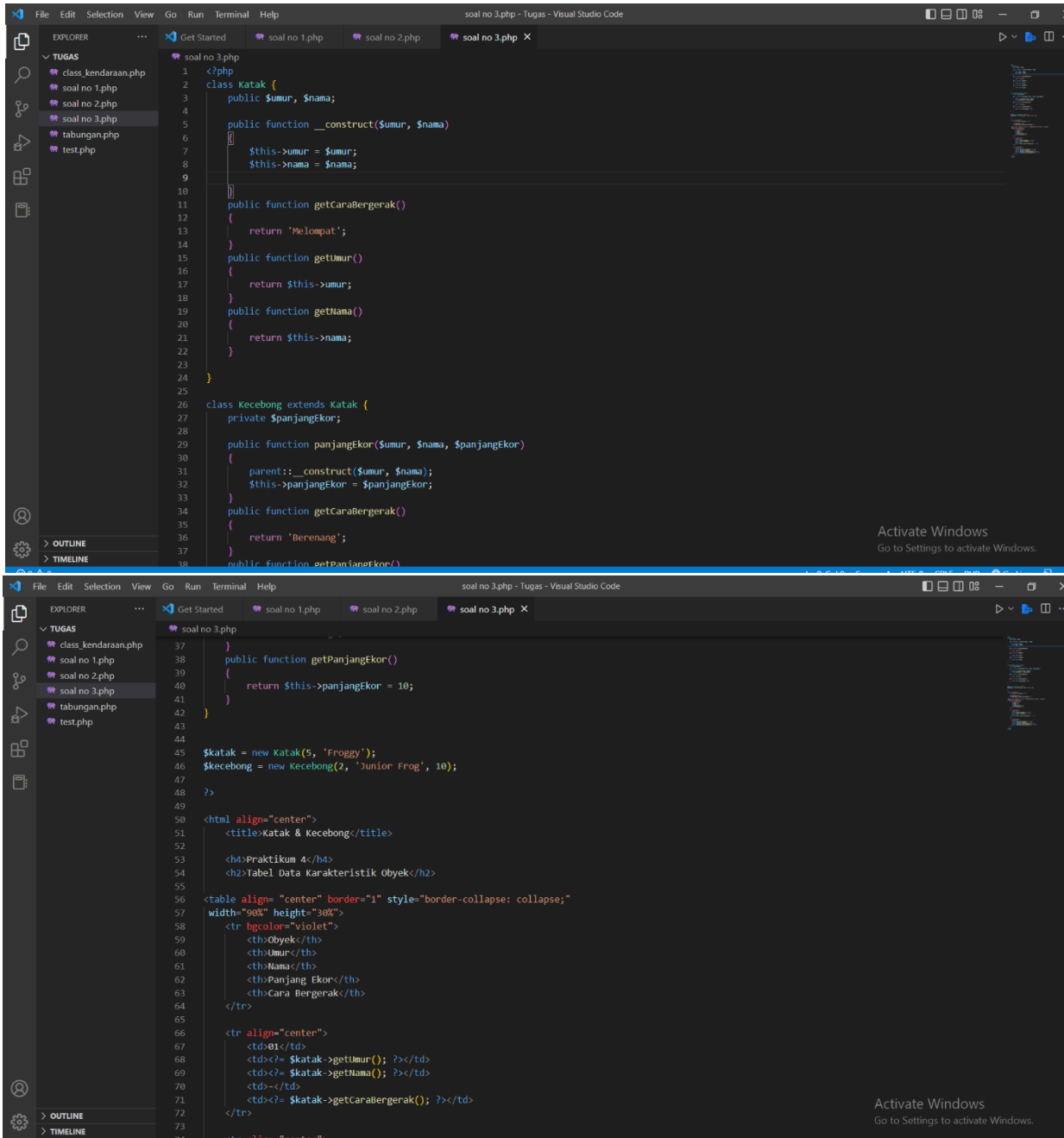
Masukkan nilai :

Masukkan nilai :

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

Soal No. 3

Input



```
1 <?php
2 class Katak {
3     public $umur, $nama;
4
5     public function __construct($umur, $nama)
6     {
7         $this->umur = $umur;
8         $this->nama = $nama;
9     }
10
11     public function getCaraBergerak()
12     {
13         return 'Melompat';
14     }
15     public function getUmur()
16     {
17         return $this->umur;
18     }
19     public function getNama()
20     {
21         return $this->nama;
22     }
23 }
24
25
26 class Kecebong extends Katak {
27     private $panjangEkor;
28
29     public function panjangEkor($umur, $nama, $panjangEkor)
30     {
31         parent::__construct($umur, $nama);
32         $this->panjangEkor = $panjangEkor;
33     }
34     public function getCaraBergerak()
35     {
36         return 'Berenang';
37     }
38     public function getPanjangEkor()
39     {
40         return $this->panjangEkor = 10;
41     }
42 }
43
44
45 $katak = new Katak(5, 'Froggy');
46 $kecebong = new Kecebong(2, 'Junior Frog', 10);
47
48 ?>
49
50 <html align="center">
51     <title>Katak & Kecebong</title>
52
53     <h4>Praktikum 4</h4>
54     <h2>Tabel Data Karakteristik Obyek</h2>
55
56     <table align="center" border="1" style="border-collapse: collapse;"
57         width="90%" height="30%">
58         <tr bgcolor="violet">
59             <th>Obyek</th>
60             <th>Umur</th>
61             <th>Nama</th>
62             <th>Panjang Ekor</th>
63             <th>Cara Bergerak</th>
64         </tr>
65
66         <tr align="center">
67             <td>01</td>
68             <td>= $katak-&gt;getUmur(); ?&gt;&lt;/td&gt;
69             &lt;td&gt;<?= $katak-&gt;getNama(); ?&gt;&lt;/td&gt;
70             &lt;td&gt;<?= $katak-&gt;getPanjangEkor(); ?&gt;&lt;/td&gt;
71             &lt;td&gt;<?= $katak-&gt;getCaraBergerak(); ?&gt;&lt;/td&gt;
72         &lt;/tr&gt;
73
74         &lt;tr align="center"&gt;</pre
```

```
47 >
48 >
49 >
50 <html align="center">
51 <title>Katak & Kecebong</title>
52 <h4>Praktikum 4</h4>
53 <h2>Tabel Data Karakteristik Obyek</h2>
54
55 <table align= "center" border="1" style="border-collapse: collapse;"
56 width="90%" height="30%">
57 <tr bgcolor="violet">
58 <th>Obyek</th>
59 <th>Umur</th>
60 <th>Nama</th>
61 <th>Panjang Ekor</th>
62 <th>Cara Bergerak</th>
63 </tr>
64
65 <tr align="center">
66 <td>01</td>
67 <td>= $katak-&gt;getUmur(); ?&gt;&lt;/td&gt;
68 &lt;td&gt;<?= $katak-&gt;getNama(); ?&gt;&lt;/td&gt;
69 &lt;td&gt;--&lt;/td&gt;
70 &lt;td&gt;<?= $katak-&gt;getCaraBergerak(); ?&gt;&lt;/td&gt;
71 &lt;/tr&gt;
72
73 &lt;tr align="center"&gt;
74 &lt;td&gt;02&lt;/td&gt;
75 &lt;td&gt;<?= $kecebong-&gt;getUmur(); ?&gt;&lt;/td&gt;
76 &lt;td&gt;<?= $kecebong-&gt;getNama(); ?&gt;&lt;/td&gt;
77 &lt;td&gt;<?= $kecebong-&gt;getPanjangEkor(); ?&gt;&lt;/td&gt;
78 &lt;td&gt;<?= $kecebong-&gt;getCaraBergerak(); ?&gt;&lt;/td&gt;
79 &lt;/tr&gt;
80 &lt;/table&gt;
81 &lt;/html&gt;
82
83</pre
```

Output :

Praktikum 4				
Tabel Data Karakteristik Obyek				
Obyek	Umur	Nama	Panjang Ekor	Cara Bergerak
01	5	Froggy	-	Melompat
02	2	Junior Frog	10	Berenang

