

Laporan Praktikum 4
Pemrograman Berorientasi Obyek



Oleh:

Putri Dwinatryska A.R.F (21091397075)

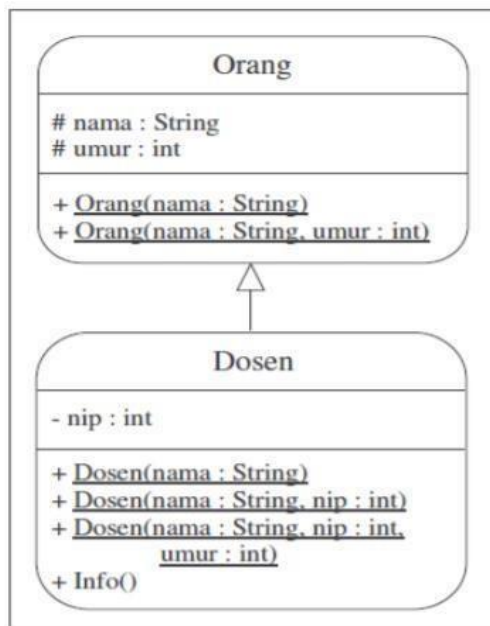
PROGRAM STUDI D4 MANAJEMEN INFORMATIKA

FAKULTAS VOKASI

UNIVERSITAS NEGERI SURABAYA (UNESA)

Praktikum 4

1. Buatlah Program berdasarkan UML dibawah ini



Source Code

prak 4(1).php > ...

```
1  <!-- putri Dwinatryska
2      21091397075-->
3
4      <!DOCTYPE html>
5  <html lang="id">
6  <head>
7      <link rel="stylesheet" type="text/css" href="prak4 no1.css">
8      <title>Praktikum 4</title>
9  </head>
10 <body>
11 <div class="container">
12 <h2>Soal No.1</h2>
13 <?php
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 {
23         private $nip;
24         public function __construct($nama, $umur, $nip) {
25             $this->nip = $nip;
26             parent::__construct($nama, $umur);
27         }
28     }
```

```

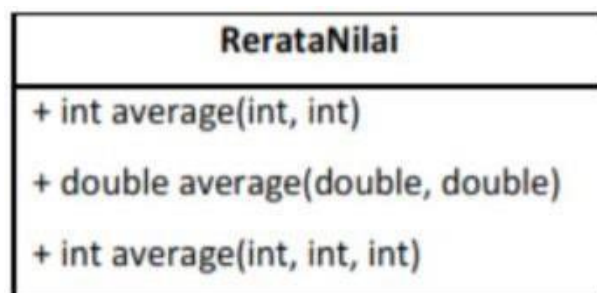
21
22     class Dosen extends Orang {
23         private $nip;
24         public function __construct($nama, $umur, $nip) {
25             $this->nip = $nip;
26             parent::__construct($nama, $umur);
27         }
28
29         public function hasil() {
30             return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
31         }
32     }
33
34     $dosen1 = new Dosen('ahmad sahirul', 35, 2015041111);
35     $dosen2 = new Dosen('desy ratnasari', 40, 20150422222 );
36     $dosen3 = new Dosen('abadi abdi ', 30, 2019031616);
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     </div>
46     </body>
47     </html>

```

- analisis

Output yang akan keluar berbentuk nama umur dan nip dari dosen.

2. Buatlah Program berdasarkan UML dibawah ini



• Source Code PHP

```
prak 4(2).php > RerataNilai > __construct
1  <!-- Putri Dwinatryska
2  | 21091397075 -->
3
4  <?php
5
6  class RerataNilai {
7      protected $value, $value2;
8      public function __construct($value, $value2){
9          $this->value = $value;
10         $this->value2 = $value2;
11     }
12
13     public function average($value3 = 0){
14         if ($value3 == 0) {
15             $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
16             return $str . ($this->value += $this->value2 ) / 2;
17         } else {
18             $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
19             return $str . ($this->value += $this->value2 += $value3 ) / 3;
20         }
21     }
22 }
23
24
25
26 class RerataNilai2 extends RerataNilai{
27     public function __construct($value, $value2){
28         parent::__construct($value, $value2);
29     }
30
31     public function average($value3 = 0){
32         return parent::average($value3);
33     }
34 }
35
36 <?>
```

• Output

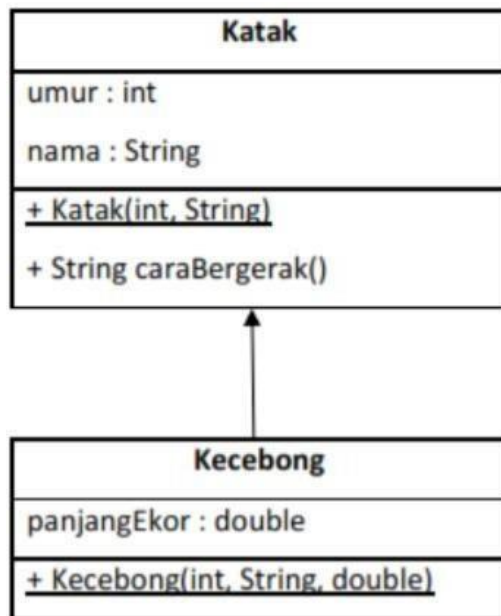
			Submit
--	--	--	--------

$(2 + 2 + 2) / 3 = 2$

• Analisa

Program diatas input metod bisa sama namun untuk jumlah parameter harus berbeda karena nilai yang di return niliannya harus sama.

3. Buatlah Program berdasarkan UML dibawah ini



Source Code

```
prak 4(3).php > ...
1  <!-- Putri Dwinatryska
2      21091397075 -->
3
4      <?php
5
6      class Katak{
7          protected $umur, $nama;
8          public function __construct($umur, $nama){
9              $this->umur = $umur;
10             $this->nama = $nama;
11         }
12         public function getUmur(){
13             return $this->umur;
14         }
15         public function getNama(){
16             return $this->nama;
17         }
18         public function caraBergerak(){
19             return 'Melompat';
20         }
21     }
22
```

```

23 class Kecebong extends Katak{
24     private $panjangEkor;
25     public function __construct($umur, $nama, $ekor){
26         $this->panjangEkor = $ekor;
27         parent::__construct($umur, $nama);
28     }
29     public function getpanjangekor(){
30         | return $this->panjangEkor;
31     }
32     public function carabergesak(){
33         | return 'Berenang';
34     }
35 }
36
37 $katak = new katak(5, 'Froggy');
38 $kecebong = new kecebong(5, 'Junior Froggy', 10);
39
40 ?>

```

• Output

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