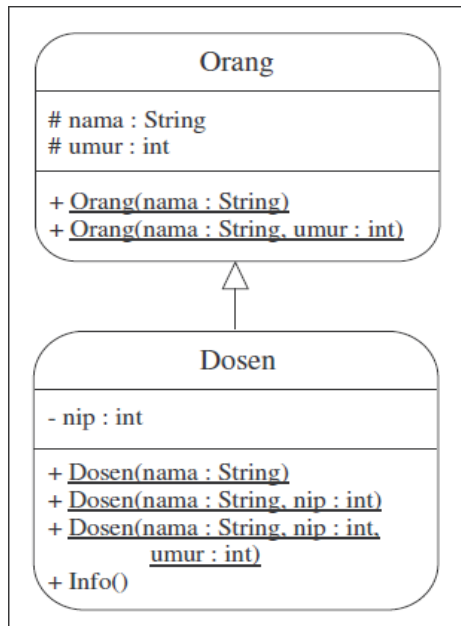


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TUGAS PRAKTIKUM 4

1. Buat program berdasarkan UML berikut



PHP

```
C:\xampp\htdocs\PBO\prak4\047_Rizqi Cahya Angelita_prak4 no1.php (htdocs) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

047_Rizqi Cahya Angelita_prak4 no1.php x
1 <!-- RIZQI CAHYA ANGELITA
2 21091397047 -->
3
4 <!DOCTYPE html>
5 <html lang="id">
6 <head>
7 <link rel="stylesheet" type="text/css" href="047_Rizqi Cahya Angelita_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
29     public function hasil() {
30         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
31     }
32 }
33
34 $dosen1 = new Dosen('Rahadian Bisma', 35, 2015041003);
35 $dosen2 = new Dosen('Dini Kinati Fardah', 35, 2015042006 );
```

```

36     $dosen3 = new Dosen('Ferly Isnomo Abdi', 30, 2019031016);
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>

```

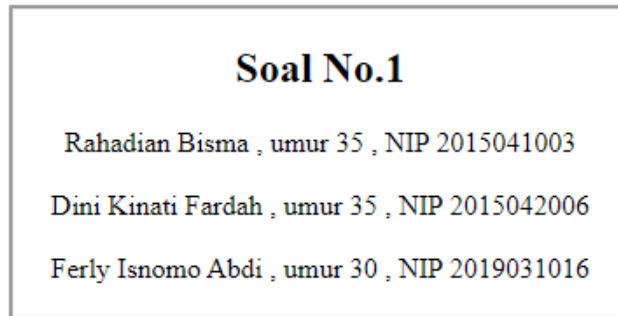
▪ CSS

```

047_Rizqi Cahya Angellita_prak4 no1.css
1  body {
2      align-items: center;
3  }
4  h2{
5      text-align: center;
6  }
7
8  .container{
9      margin: auto;
10     text-align: center;
11     width: 350px;
12     border-style: groove;
13 }

```

▪ Hasil Output



▪ Analisa

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

2. Buat program berdasarkan UML berikut

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

▪ PHP

```

047_Rizqi Cahya Angelita_index no2.php x
1 <!-- RIZQI CAHYA ANGELITA
2 | 21091397047 -->
3
4 <?php
5     require_once '047_Rizqi Cahya Angelita_prak4 no2.php';
6 >>
7
8 <html lang="id">
9 <head>
10     <link rel="stylesheet" href="047_Rizqi Cahya Angelita_prak4 no2.css">
11     <title>Praktikum 4</title>
12 </head>
13 <body>
14 <div class="container">
15 <h2>Soal No.2</h2>
16 <div class="form">
17     <form action="" method="post">
18         <input type="number" name="input1">
19         <input type="number" name="input2">
20         <input type="number" name="input3">
21         <button type="submit" name="submit">Submit</button>
22     </form>
23 </div>
24
25     <?php
26         if (isset($_POST['submit'])) {
27             if (!$_POST['input3']) {
28                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
29                 echo $value1->average(0);
30             } else {
31                 $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
32                 echo $value1->average($_POST['input3']);
33             }
34         }
35     >>
36 </div>
37 </body>
38 </html>

```

```

047_Rizqi Cahya Angelita_prak4 no2.php x
1 <!-- RIZQI CAHYA ANGELITA
2 | 21091397047 -->
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 += $value3 ) / 3;
20        }
21    }
22 }
23
24
25 class RerataNilai2 extends RerataNilai{
26     public function __construct($value, $value2){
27         parent::__construct($value, $value2);
28     }
29
30     public function average($value3 = 0){
31         return parent::average($value3);
32     }
33 }
34
35 >>

```

■ CSS

```

047_Rizqi Cahya Angelita_prak4 no2.css x
1 .container {
2     margin: auto;
3     text-align: center;
4     width: 650px;
5     height: 150px;
6     border-style: groove;
7 }

```

- Hasil Output

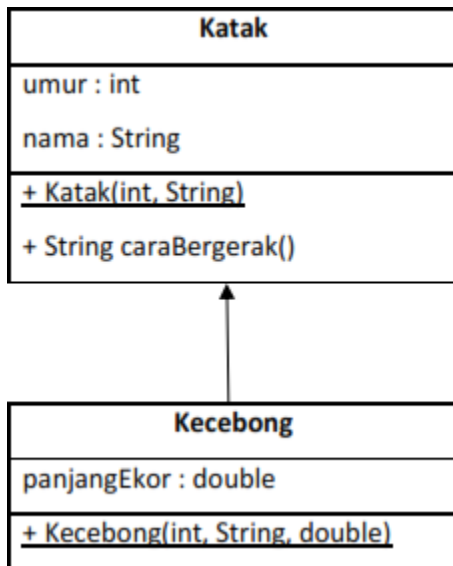
Soal No.2

$(27 + 27 + 27) / 3 = 27$

- Analisa

program dengan nama method boleh sama, tetapi jumlah parameter mesti berbeda nilai. Yang di Return harus mempunyai tipe yang sama

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

- PHP

```

047_Rizqi Cahya Angelita_index no3.php x
1 <!-- RIZQI CAHYA ANGELITA
2 | 21091397047 -->
3
4 <?php
5     require_once '047_Rizqi Cahya Angelita_prak4 no3.php';
6 >
7
8 <html lang="id">
9 <head>
10     <link rel="stylesheet" type="text/css" href="047_Rizqi Cahya Angelita_prak4 no3.css">
11     <title>Praktikum 4</title>
12 </head>
13 <body>
14 <h2><center>Soal No.3</center></h2>
15 <table align="center">
16
17 <tr align="center">
18     <thead>
19         <td>Objek</td>
20         <td>Umur</td>
21         <td>Nama</td>
22         <td>Panjang Ekor</td>
23         <td>Cara Bergerak</td>
24     </thead>
25 </tr>
26
27 <tbody>
28 <tr>
29     <td>01</td>
30     <td><?=$katak->getUmur() ?> </td>
31     <td><?=$katak->getNama() ?> </td>
32     <td>-</td>
33     <td><?=$katak->carab Bergerak() ?> </td>
34 </tr>
35
36 <tr>
37     <td>02</td>
38     <td><?=$kecebong->getUmur() ?></td>
39     <td><?=$kecebong->getNama() ?></td>
40     <td><?=$kecebong->getpanjangekor() ?></td>
41     <td><?=$kecebong->carab Bergerak() ?></td>
42 </tr>
43 </tbody>
44 </table>
45 </body>
46 </html>
47
047_Rizqi Cahya Angelita_prak4 no3.php x
1 <!-- RIZQI CAHYA ANGELITA
2 | 21091397047 -->
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 carab Bergerak(){
33         return 'Berenang';
34     }
35 }
36
37 $katak = new katak(5, 'Froggy');
38 $kecebong = new kecebong(5, 'Junior Froggy', 10);
39
40 >

```

- CSS

```
047_Rizqi Cahya Angelita_prak4 no3.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 }
17
18 thead{
19     font-weight: bold;
20 }
```

- Hasil Output

Soal No.3

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

- Analisa

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.