

## **Laporan Praktikum 4**

**Mata Kuliah Pemrograman Berorientasi Obyek**



**Oleh:**

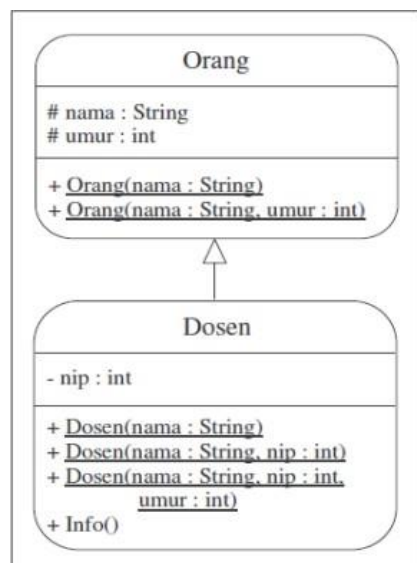
**Salsabilla Octavianingrum (21091397005)**

**PROGRAM STUDI D4 MANAJEMEN INFORMATIKA**

**FAKULTAS VOKASI**

**UNIVERSITAS NEGERI SURABAYA**

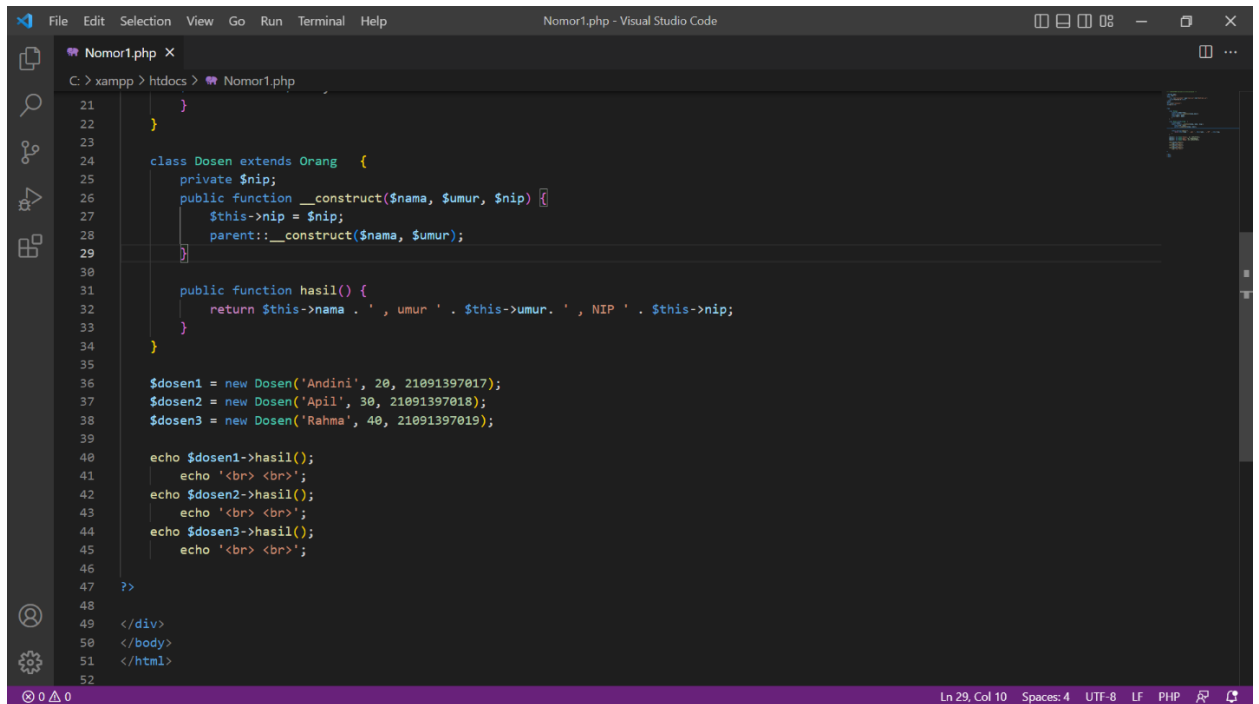
1. Buatlah program berdasarkan UML berikut



Source code: PHP

```
File Edit Selection View Go Run Terminal Help
Nomor1.php - Visual Studio Code

C: > xampp > htdocs > Nomor1.php
1 <!-- 21091397005 Salsabilla Octavianingrum -->
2
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6 <link rel="stylesheet" type="text/css" href="No1Prak4.css">
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     public function __construct($nama,$umur){
19         $this->nama = $nama;
20         $this->umur = $umur;
21     }
22 }
23
24 class Dosen extends Orang {
25     private $nip;
26     public function __construct($nama, $umur, $nip) {
27         $this->nip = $nip;
28         parent::__construct($nama, $umur);
29     }
30
31     public function hasil() {
32         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
```



```
21 }
22 }
23
24 class Dosen extends Orang {
25     private $nip;
26     public function __construct($nama, $umur, $nip) {
27         $this->nip = $nip;
28         parent::__construct($nama, $umur);
29     }
30
31     public function hasil() {
32         return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this->nip;
33     }
34 }
35
36 $dosen1 = new Dosen('Andini', 20, 21091397017);
37 $dosen2 = new Dosen('Apil', 30, 21091397018);
38 $dosen3 = new Dosen('Rahma', 40, 21091397019);
39
40 echo $dosen1->hasil();
41 echo '<br> <br>';
42 echo $dosen2->hasil();
43 echo '<br> <br>';
44 echo $dosen3->hasil();
45 echo '<br> <br>';
46
47 ?>
48
49 </div>
50 </body>
51 </html>
52
```

## Output

### Soal 1

Andini , umur 20 , NIP 21091397017

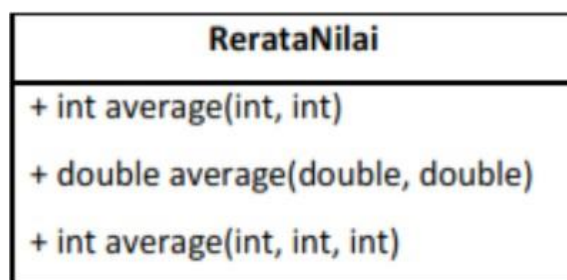
Apil , umur 30 , NIP 21091397018

Rahma , umur 40 , NIP 21091397019

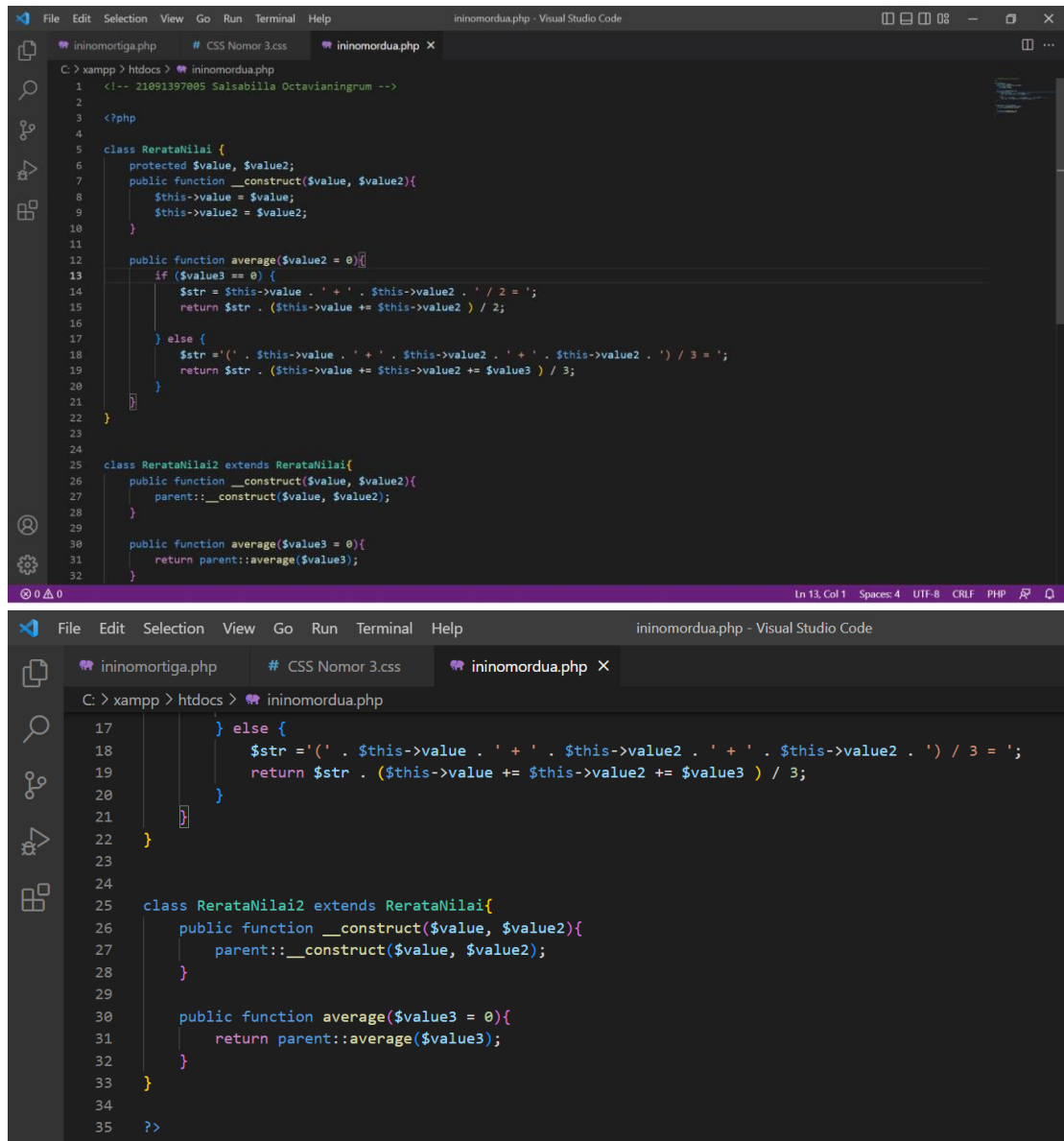
#### Analisa

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

2. Buat program berdasarkan UML berikut



## Source code: PHP



```
1 <!-- 21091397005 Salsabilla Octavianingrum -->
2
3 <?php
4
5 class RerataNilai {
6     protected $value, $value2;
7     public function __construct($value, $value2){
8         $this->value = $value;
9         $this->value2 = $value2;
10    }
11
12    public function average($value2 = 0){
13        if ($value3 == 0) {
14            $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
15            return $str . ($this->value += $this->value2) / 2;
16        } else {
17            $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
18            return $str . ($this->value += $this->value2 += $value3) / 3;
19        }
20    }
21 }
22
23
24
25 class RerataNilai2 extends RerataNilai{
26     public function __construct($value, $value2){
27         parent::__construct($value, $value2);
28     }
29
30     public function average($value3 = 0){
31         return parent::average($value3);
32     }
33 }
34
35 ?>
```

## Output

### Soal NO 2

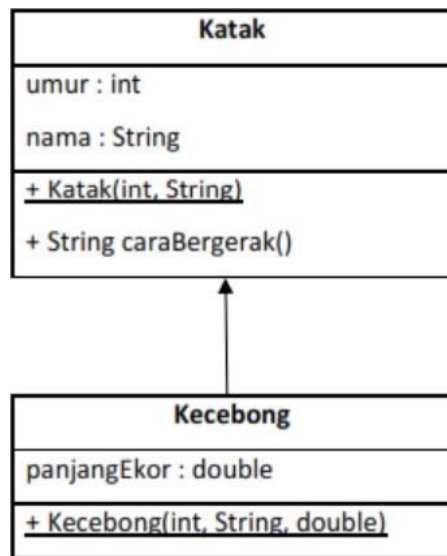
			Submit
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$$(8 + 8 + 8) / 3 = 6$$

## Analisa

Program dengan nama method boleh sama tetapi jumlah parameter mesti berbeda nilai yang di return harus mempunyai tipe yang sam

3. Buat program berdasarkan UML berikut



Source code: PHP

```
File Edit Selection View Go Run Terminal Help
ininomortiga.php - Visual Studio Code

ininomortiga.php X
C: > xampp > htdocs > ininomortiga.php
1 <!-- 21091397005 Salsabilla Octavianingrum -->
2
3 <?php
4
5 class Katak{
6     protected $umur, $nama;
7     public function __construct($umur, $nama){
8         $this->umur = $umur;
9         $this->nama = $nama;
10    }
11    public function getUmur(){
12        return $this->umur;
13    }
14    public function getNama(){
15        return $this->nama;
16    }
17    public function caraBergerak(){
18        return 'Melompat';
19    }
20 }
21
22 class Kecebong extends Katak{
23     private $panjangEkor;
24     public function __construct($umur, $nama, $ekor){
25         $this->panjangEkor = $ekor;
26         parent::__construct($umur, $nama);
27     }
28     public function getpanjangekor(){
29         return $this->panjangEkor;
30     }
31     public function carabergek(){
32         return 'Berenang';
33     }
34 }
```

```
File Edit Selection View Go Run Terminal Help
ininomortiga.php - Visual Studio Code

ininomortiga.php X
C: > xampp > htdocs > ininomortiga.php
21
22 class Kecebong extends Katak{
23     private $panjangEkor;
24     public function __construct($umur, $nama, $ekor){
25         $this->panjangEkor = $ekor;
26         parent::__construct($umur, $nama);
27     }
28     public function getpanjangekor(){
29         return $this->panjangEkor;
30     }
31     public function carabergek(){
32         return 'Berenang';
33     }
34 }
35
36 $katak = new katak(7, 'RahCan');
37 $kecebong = new kecebong(8, 'Junior RahCan', 10);
38
39 ?>
```

```
File Edit Selection View Go Run Terminal Help CSS Nomor 3.css - Visual Studio Code
ininomortiga.php # CSS Nomor 3.css X
C: > xampp >htdocs > # CSS Nomor 3.css > h2
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 }
```

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.