

**Pemrograman Berorientasi Objek**  
**Praktikum 4 Overriding dan Overloading**



**Disusun oleh:**

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## NOMOR 1

➤ CSS (Nomor1\_Prak4.css)

```
h2{
    text-align: center;
}

.container{
    margin: auto;
    text-align: center;
    height: 180px;
    width: 350px;
    border: 2px solid black;
}
```

➤ PHP (Nomor1\_Prak4.php)

```
<!-- Nama: Widya Sari Wibowo -->
<!-- NIM: 21091397070 -->
<!-- Kelas: 2021 B -->

<!DOCTYPE html>
<html lang="en">
<head>
    <link rel="stylesheet" type="text/css" href="Nomor1_Prak4.css">
    <title>Praktikum 4</title>
</head>
<body>
<div class="container">
<h2>Soal No.1</h2>

<?php

    class Orang {
        protected $nama,$umur;
        public function __construct($nama,$umur){
            $this->nama = $nama;
            $this->umur = $umur;
        }
    }

    class Dosen extends Orang {
        private $nip;
        public function __construct($nama, $umur, $nip) {
            $this->nip = $nip;
            parent::__construct($nama, $umur);
        }

        public function hasil() {
```

```

        return $this->nama . ' , umur ' . $this->umur . ' , NIP ' . $this-
>nip;
    }
}

$dosen1 = new Dosen('Widya', 24, 21091397070);
$dosen2 = new Dosen('Sari', 27, 21091397177);
$dosen3 = new Dosen('Rina', 44, 21091397280);

echo $dosen1->hasil();
    echo '<br> <br>';
echo $dosen2->hasil();
    echo '<br> <br>';
echo $dosen3->hasil();
    echo '<br> <br>';

?>

</div>
</body>
</html>

```

➤ Output

**Soal No.1**

Widya , umur 24 , NIP 21091397070

Sari , umur 27 , NIP 21091397177

Rina , umur 44 , NIP 21091397280

➤ Analisis

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

## **NOMOR 2**

➤ CSS (Nomor2\_Prak4.css)

```

.container {
    margin: auto;
    text-align: center;
    width: 650px;
    height: 150px;
    border-style: groove;
}

```

➤ PHP

(Nomor2\_PHP\_Prak4.php)

```
<!-- Nama: Widya Sari Wibowo -->
<!-- NIM: 21091397070 -->
<!-- Kelas: 2021 B -->

<?php

class RerataNilai {
    protected $value, $value2;
    public function __construct($value, $value2){
        $this->value = $value;
        $this->value2 = $value2;
    }

    public function average($value3 = 0){
        if ($value3 == 0) {
            $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
            return $str . ($this->value += $this->value2 ) / 2;

        } else {
            $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
            return $str . ($this->value += $this->value2 += $value3 ) / 3;
        }
    }
}

class RerataNilai2 extends RerataNilai{
    public function __construct($value, $value2){
        parent::__construct($value, $value2);
    }

    public function average($value3 = 0){
        return parent::average($value3);
    }
}

?>
```

(Nomor2\_Index\_Prak4.php)

```
<!-- Nama: Widya Sari Wibowo -->
<!-- NIM: 21091397070 -->
<!-- Kelas: 2021 B -->

<?php
    require_once 'Nomor2_PHP_Prak4.php';
?>
```

```

<html lang="id">
<head>
  <link rel="stylesheet" href="Nomor2_Prak4.css">
  <title>Praktikum 4</title>
</head>
<body>
<div class="container">
<h2>Soal No.2</h2>
<div class="form">
  <form action="" method="post">
    <input type="number" name="input1">
    <input type="number" name="input2">
    <input type="number" name="input3">
    <button type="submit" name="submit">Submit</button>
  </form>
</div>

  <?php
    if (isset($_POST['submit'])) {
      if (!$_POST['input3']) {
        $value1 = new RerataNilai2($_POST['input1'],
$_POST['input2']);

        echo $value1->average(0);
      } else {
        $value1 = new RerataNilai2($_POST['input1'],
$_POST['input2']);

        echo $value1->average($_POST['input3']);
      }
    }
  ?>
</div>
</body>
</html>

```

### ➤ Output

## Soal No.2

(3 + 6 + 6) / 3 = 5

### ➤ Analisis

Diatas adalah program dengan nama method yang boleh sama, tapi jumlah parameternya mesti berbeda, nilai yang di return harus mempunyai tipe yang sama.

## NOMOR 3

### ➤ CSS (Nomor3\_Prak4.css)

```
h2{
    margin: auto;
    text-align: center;
    padding-bottom: 10px;
}

.table{
    margin: auto;
    font-family: sans-serif;
    border-collapse: collapse;
}

.table, td{
    border: 1px solid;
    padding: 8px 10px;
}

thead{
    font-weight: bold;
}
```

### ➤ PHP

(Nomor3\_PHP\_Prak4.php)

```
<!-- Nama: Widya Sari Wibowo -->
<!-- NIM: 21091397070 -->
<!-- Kelas: 2021 B -->

<?php

class Katak{
    protected $umur, $nama;
    public function __construct($umur, $nama){
        $this->umur = $umur;
        $this->nama = $nama;
    }
    public function getUmur(){
        return $this->umur;
    }
    public function getNama(){
        return $this->nama;
    }
    public function caraBergerak(){
        return 'Melompat';
    }
}
```

```

class Kecebong extends Katak{
    private $panjangEkor;
    public function __construct($umur, $nama, $ekor){
        $this->panjangEkor = $ekor;
        parent::__construct($umur, $nama);
    }
    public function getpanjangekor(){
        return $this->panjangEkor;
    }
    public function carab Bergerak(){
        return 'Berenang';
    }
}

$katak = new Katak(7, 'Kodok');
$kecebong = new Kecebong(8, 'Junior Kodok', 10);

?>

```

➤ (Nomor3\_Index\_Prak4.php)

```

<!-- Nama: Widya Sari Wibowo -->
<!-- NIM: 21091397070 -->
<!-- Kelas: 2021 B -->

<?php
    require_once 'Nomor3_PHP_Prak4.php';
?>

<html lang="id">
<head>
    <link rel="stylesheet" type="text/css" href="Nomor3_Prak4.css">
    <title>Praktikum 4</title>
</head>
<body>
<h2><center>Soal No.3</center></h2>
<table align="center">

<tr align="center">
    <thead>
        <td>Objek</td>
        <td>Umur</td>
        <td>Nama</td>
        <td>Panjang Ekor</td>
        <td>Cara Bergerak</td>
    </thead>
</tr>

<tbody>

```

```

<tr>
  <td>01</td>
  <td><?=$katak->getUmur() ?> </td>
  <td><?=$katak->getnama() ?> </td>
  <td>-</td>
  <td><?=$katak->carabengerak() ?> </td>
</tr>

<tr>
  <td>02</td>
  <td><?=$kecebong->getUmur() ?></td>
  <td><?=$kecebong->getNama() ?></td>
  <td><?=$kecebong->getpanjangekor() ?></td>
  <td><?=$kecebong->carabengerak() ?></td>
</tr>
</tbody>

</table>
</body>
</html>

```

➤ Output

### Soal No.3

Objek	Umur	Nama	Panjang Ekor	Cara Bergerak
01	7	Kodok	-	Melompat
02	8	Junior Kodok	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.