Tugas Pemrograman Berorientasi Objek

Praktikum 3 INHERITANCE

Nama:

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DIV MANAJEMEN INFORMATIKA PROGRAM VOKASI

UNIVERSITAS NEGERI SURABAYA TAHUN AJARAN 2021/2022

1. Output yang dihasilkan adalah seperti ini

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    JUPYTER                        Code        ∨  ≡  🔒  🗂  ^  ×

[Running] php "c:\xampp\htdocs\PBO\Praktikum4\soal_no.1.php"
<Nama : Riska Octavia Arianto -->
<NIM : 21091397059 -->
<Prodi : D4 Manajemen Informatika(2021A -->

Praktikum 4 Soal No 1<br><br>Nama : Dosen1 | Umur : 40 | NIP : 123456<br>Nama : Dosen2 | Umur : 35 | NIP : 345678<br>Nama
: Dosen3 | Umur : 40 | NIP : 567890
[Done] exited with code=0 in 0.151 seconds
```

Dengan script seperti berikut

```php
1   <Nama : Riska Octavia Arianto -->
2   <NIM : 21091397059 -->
3   <Prodi : D4 Manajemen Informatika(2021A -->
4
5   <?php
6
7   class Orang
8   {
9       protected $nama, $umur;
10
11      public function __construct($nama, $umur)
12      {
13          $this->nama = $nama;
14          $this->umur = $umur;
15      }
16  }
17
18  class Dosen extends Orang
19  {
20      private $nip;
21
22      public function __construct($nama, $umur, $nip)
23      {
24          parent::__construct($nama, $umur);
25          $this->nip = $nip;
26      }
27      public function info(){
28          return 'Nama : ' . $this->nama . ' | Umur : ' . $this->umur . ' | NIP : ' . $this->nip;
29      }
30
31  }
32
33  $dosen1 = new Dosen('Dosen1', 40, 123456);
34  $dosen2 = new Dosen('Dosen2', 35, 345678);
35  $dosen3 = new Dosen('Dosen3', 40, 567890);
36
37  echo "Praktikum 4 Soal No 1";
38  echo '<br>';
39  echo '<br>';
40  echo $dosen1->info() ;
41  echo '<br>';
42  echo $dosen2->info();
43  echo '<br>';
44  echo $dosen3->info();
45  ?>
```

2. Hasil yang muncul adalah seperti berikut

Soal No 2

MENGHITUNG RATA-RATA NILAI

Masukkan nilai : [input nilai 1]
Masukkan nilai : [input nilai 2]
Masukkan nilai : [input nilai 3]
[Hitung]

$(4 + 2 + 2) / 3 = 3.3333333333333$

Dengan script seperti berikut

```php
soal_no.2.php > PHP Intelephense > ⊘ Nama > ⊘ NIM > ⊘ Prodi
5   <?php
6
7   class RerataNilai {
8       protected $value, $value2;
9       public function __construct($value, $value2){
10          $this->value = $value;
11          $this->value2 = $value2;
12      }
13
14      public function average($value3 = 0){
15          if ($value3 == 0) {
16              $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
17              return $str . ($this->value += $this->value2 ) / 2;
18
19          } else {
20              $str ='(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ') / 3 = ';
21              return $str . ($this->value += $this->value2 += $value3 ) / 3;
22          }
23      }
24  }
25
26
27  class RerataNilai2 extends RerataNilai{
28      public function __construct($value, $value2){
29          parent::__construct($value, $value2);
30      }
31
32      public function average($value3 = 0){
33          return parent::average($value3);
34      }
35  }
36
37  ?>
38
39  <html lang="en">
40  <head>
41      <link rel="stylesheet" href="No 2.css">
42      <title>Praktikum 4</title>
43  </head>
44  <body>
45  <div class="container">
46  <h4>Soal No 2</h4>
47  <div class="form">
48      <h3>MENGHITUNG RATA-RATA NILAI</h3>
49      <form action="" method="post">
50          <label>Masukkan nilai : </label>
51          <input type="number" name="input1" placeholder="input nilai 1">
```

```
49        <form action="" method="post">
50            <label>Masukkan nilai : </label>
51            <input type="number" name="input1" placeholder="input nilai 1">
52            <br>
53            <label>Masukkan nilai : </label>
54            <input type="number" name="input2" placeholder="input nilai 2">
55            <br>
56            <label>Masukkan nilai : </label>
57            <input type="number" name="input3" placeholder="input nilai 3">
58            <br>
59            <button type="submit" name="submit">Hitung</button>
60        </form>
61    </div>
62
63        <?php
64            if (isset($_POST['submit'])) {
65                if (!$_POST['input3']) {
66                    $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
67                    echo $value1->average(0);
68                } else {
69                    $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
70                    echo $value1->average($_POST['input3']);
71                }
72            }
73        ?>
74    </div>
75    </body>
76    </html>
77
```

3. Berikut adalah output soal no.3

Praktikum 4

Tabel Data Karakteristik Obyek

Obyek	Umur	Nama	Panjang Ekor	Cara Bergerak
01	5	Froggy	-	Melompat
02	2	Junior Frog	10	Berenang

Dengan script seperti berikut

```php
<?php
class Katak {
    public $umur, $nama;

    public function __construct($umur, $nama)
    {
        $this->umur = $umur;
        $this->nama = $nama;

    }
    public function getCaraBergerak()
    {
        return 'Melompat';
    }
    public function getUmur()
    {
        return $this->umur;
    }
    public function getNama()
    {
        return $this->nama;
    }

}

class Kecebong extends Katak {
    private $panjangEkor;

    public function panjangEkor($umur, $nama, $panjangEkor)
    {
        parent::__construct($umur, $nama);
        $this->panjangEkor = $panjangEkor;
    }
    public function getCaraBergerak()
    {
        return 'Berenang';
    }
    public function getPanjangEkor()
    {
        return $this->panjangEkor = 10;
    }
}
```

```php
48
49    $katak = new Katak(5, 'Froggy');
50    $kecebong = new Kecebong(2, 'Junior Frog', 10);
51
52    ?>
53
54    <html align="center">
55        <title>Katak & Kecebong</title>
56
57        <h4>Praktikum 4</h4>
58        <h2>Tabel Data Karakteristik Obyek</h2>
59
60    <table align= "center" border="1" style="border-collapse: collapse;"
61     width="90%" height="30%">
62        <tr bgcolor="violet">
63            <th>Obyek</th>
64            <th>Umur</th>
65            <th>Nama</th>
66            <th>Panjang Ekor</th>
67            <th>Cara Bergerak</th>
68        </tr>
69
70        <tr align="center">
71            <td>01</td>
72            <td><?= $katak->getUmur(); ?></td>
73            <td><?= $katak->getNama(); ?></td>
74            <td>-</td>
75            <td><?= $katak->getCaraBergerak(); ?></td>
76        </tr>
77
78        <tr align="center">
79            <td>02</td>
80            <td><?= $kecebong->getUmur(); ?></td>
81            <td><?= $kecebong->getNama(); ?></td>
82            <td><?= $kecebong->getPanjangEkor()?></td>
83            <td><?= $kecebong->getCaraBergerak(); ?></td>
84        </tr>
85
86    </table>
87    </html>
```