

PRAKTEK PEMROGRAMAN BERORIENTASI OBJEK

PRAKTIKUM 3

Ditulis Dalam Rangka Pemenuhan Tugas Mata Kuliah Praktek Pemrograman Berorientasi Objek



Dosen Pengampu

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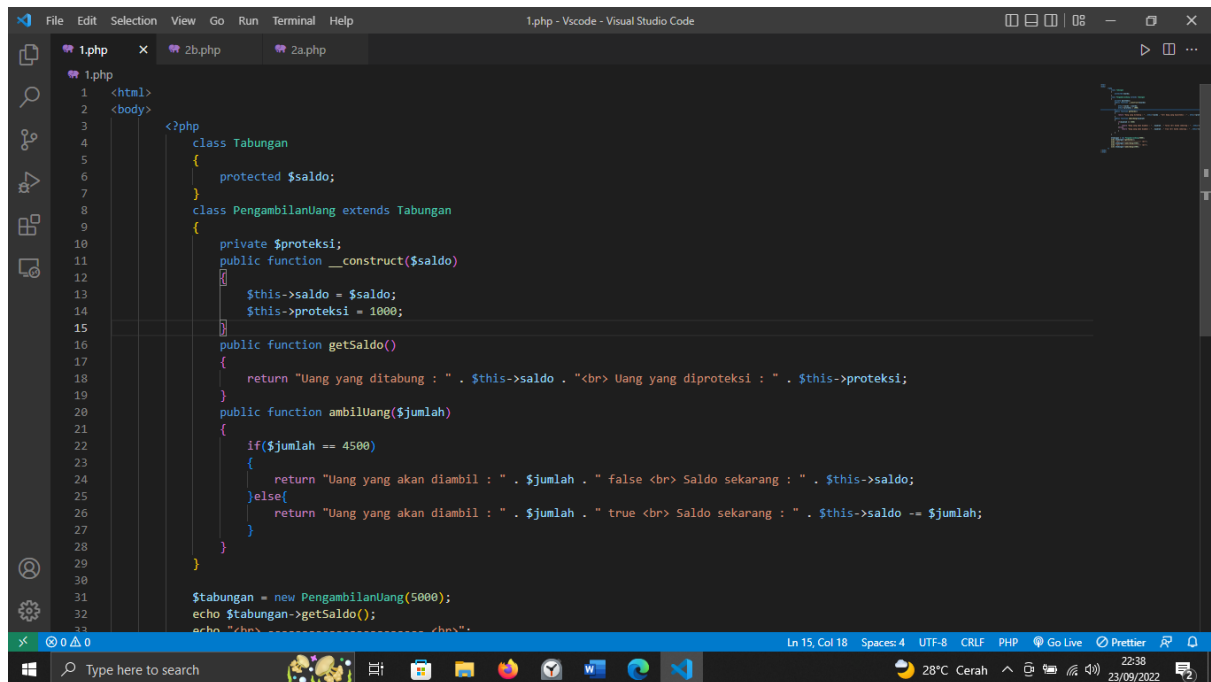
PROGRAM STUDI MANAJEMEN INFORMATIKA

FAKULTAS VOKASI

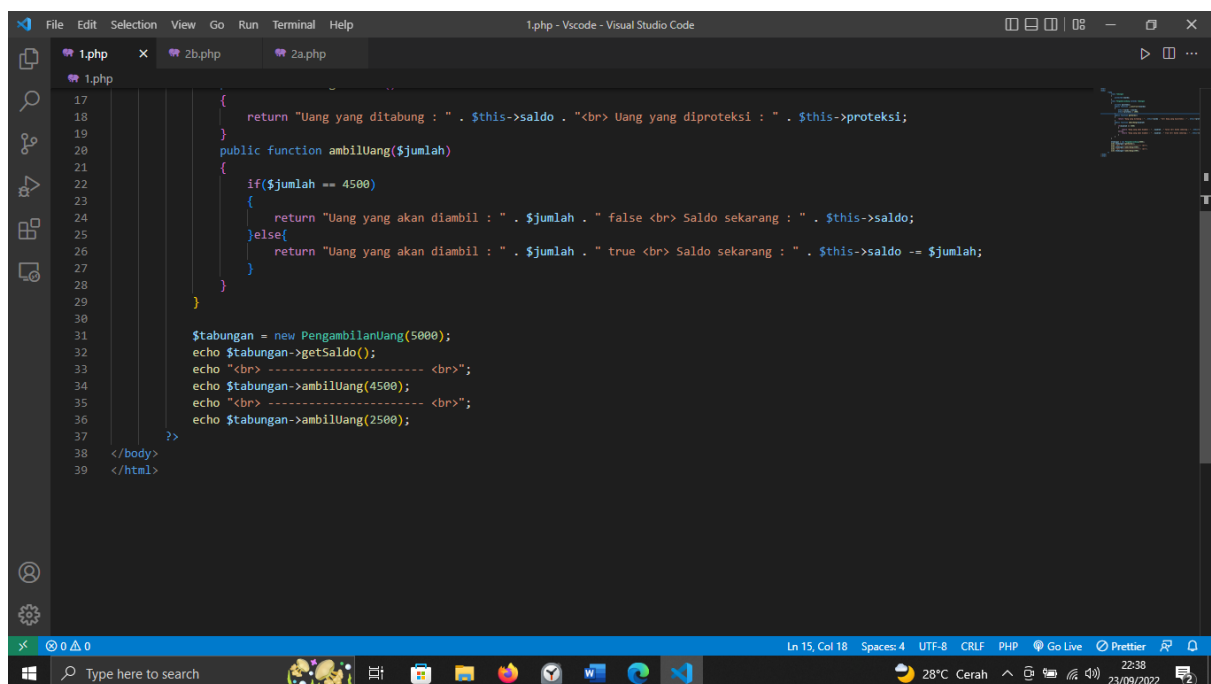
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1. Transformasikan UML class diagram dibawah ini kedalam program
Input yang dibutuhkan untuk menjadi output yang diinginkan sebagai berikut :



```
1 <html>
2 <body>
3
4 <?php
5     class Tabungan
6     {
7         protected $saldo;
8     }
9     class PengambilanUang extends Tabungan
10    {
11        private $proteksi;
12        public function __construct($saldo)
13        {
14            $this->saldo = $saldo;
15            $this->proteksi = 1000;
16        }
17        public function getSaldo()
18        {
19            return "Uang yang ditabung : " . $this->saldo . "<br> Uang yang diproteksi : " . $this->proteksi;
20        }
21        public function ambilUang($jumlah)
22        {
23            if($jumlah == 4500)
24            {
25                return "Uang yang akan diambil : " . $jumlah . " false <br> Saldo sekarang : " . $this->saldo;
26            }
27            else{
28                return "Uang yang akan diambil : " . $jumlah . " true <br> Saldo sekarang : " . $this->saldo - $jumlah;
29            }
30        }
31    }
32
33    $tabungan = new PengambilanUang(5000);
34    echo $tabungan->getSaldo();
35    echo "<br>";
```



```
17         return "Uang yang ditabung : " . $this->saldo . "<br> Uang yang diproteksi : " . $this->proteksi;
18     }
19     public function ambilUang($jumlah)
20     {
21         if($jumlah == 4500)
22         {
23             return "Uang yang akan diambil : " . $jumlah . " false <br> Saldo sekarang : " . $this->saldo;
24         }
25         else{
26             return "Uang yang akan diambil : " . $jumlah . " true <br> Saldo sekarang : " . $this->saldo - $jumlah;
27         }
28     }
29 }
30
31 $tabungan = new PengambilanUang(5000);
32 echo $tabungan->getSaldo();
33 echo "<br>";
34 echo $tabungan->ambilUang(4500);
35 echo "<br>";
36 echo $tabungan->ambilUang(2500);
37 }
38 </body>
39 </html>
```

2. A. Buatlah kelas-kelas berdasarkan UML class diagram yang telah ditentukan

```
1 <?php
2 class Kendaraan
3 {
4     private $jmlRoda;
5     public function setJmlRoda($jmlRoda)
6     {
7         $this->JmlRoda = $jmlRoda;
8     }
9     public function getJmlRoda()
10    {
11        return $this->JmlRoda;
12    }
13
14    private $warna;
15    public function setWarna($warna)
16    {
17        $this->Warna = $warna;
18    }
19    public function getWarna()
20    {
21        return $this->Warna;
22    }
23 }
24
25 class Mobil extends Kendaraan
26 {
27     private $bahanBakar;
28     public function setBahanBakar($bahanBakar)
29     {
30         $this->BahanBakar = $bahanBakar;
31     }
32     public function getBahanBakar()
33     {
```

Ln 11, Col 26 Tab Size: 4 UTF-8 CRLF PHP Go Live Prettier

```
33 {
34     return $this->BahanBakar;
35 }
36
37 private $kapasitasMesin;
38 public function setKapasitasMesin($kapasitasMesin)
39 {
40     $this->KapasitasMesin = $kapasitasMesin;
41 }
42 public function getKapasitasMesin()
43 {
44     return $this->KapasitasMesin;
45 }
46 }
47
48 class Sepeda extends Kendaraan
49 {
50     private $jmlSadel;
51     public function setJmlSadel($jmlSadel)
52     {
53         $this->JmlSadel = $jmlSadel;
54     }
55     public function getJmlSadel()
56     {
57         return $this->JmlSadel;
58     }
59
60     private $jmlGir;
61     public function setJmlGir($jmlGir)
62     {
63         $this->JmlGir = $jmlGir;
64     }
65 }
```

Ln 11, Col 26 Tab Size: 4 UTF-8 CRLF PHP Go Live Prettier

This screenshot shows the Visual Studio Code editor with a file named '2a.php' open. The code defines a class 'Truk' that extends 'Mobil'. It includes a 'getJmlGir()' method and a 'setMuatanMaks()' method. The status bar at the bottom indicates the cursor is at line 11, column 26.

```
64 }
65 public function getJmlGir()
66 {
67     return $this->JmlGir;
68 }
69 }
70
71 class Truk extends Mobil
72 {
73     private $muatanMaks;
74     public function setMuatanMaks($muatanMaks)
75     {
76         $this->MuatanMaks = $muatanMaks;
77     }
78     public function getMuatanMaks()
79     {
80         return $this->MuatanMaks;
81     }
82 }
83
84 class Taksi extends Mobil
85 {
86     private $tarifAwal;
87     public function setTarifAwal($tarifAwal)
88     {
89         $this->TarifAwal = $tarifAwal;
90     }
91     public function getTarifAwal()
92     {
93         return $this->TarifAwal;
94     }
95     private $tarifPerKm;
```

This screenshot shows the Visual Studio Code editor with the same file '2a.php'. The code continues with the 'Taksi' class, adding 'setTarifPerKm()' and 'getTarifPerKm()' methods. The status bar at the bottom indicates the cursor is at line 11, column 26.

```
96     private $tarifPerKm;
97     public function setTarifPerKm($tarifPerKm)
98     {
99         $this->TarifPerKm = $tarifPerKm;
100     }
101     public function getTarifPerKm()
102     {
103         return $this->TarifPerKm;
104     }
105 }
106 }>
```

2. B. Selanjutnya buatlah kelas Tes.php yang membuat obyek-obyek serta mengeset nilai variabel seperti pada Tabel 1 dan tampilkan data per obyek


```
File Edit Selection View Go Run Terminal Help 2b.php - Vscode - Visual Studio Code
2b.php
62 <td><?=$taksi1->getTarifAwal(); ?></td>
63 <td><?=$taksi1->getTarifPerKm(); ?></td>
64 <td><?=$taksi1->getTarifPerKm(); ?></td>
65 <td><?=$taksi1->getTarifPerKm(); ?></td>
66 </tr>
67 <tr>
68 <td>4</td>
69 <td>Taksi 2</td>
70 <td><?=$taksi2->getJmlRoda(); ?></td>
71 <td><?=$taksi2->getWarna(); ?></td>
72 <td><?=$taksi2->getBahanBakar(); ?></td>
73 <td><?=$taksi2->getKapasitasMesin(); ?></td>
74 <td><?=$taksi2->getTarifAwal(); ?></td>
75 <td><?=$taksi2->getTarifPerKm(); ?></td>
76 <td><?=$taksi2->getTarifPerKm(); ?></td>
77 <td><?=$taksi2->getTarifPerKm(); ?></td>
78 </tr>
79 <tr>
80 <td>5</td>
81 <td>Sepeda 1</td>
82 <td><?=$sepeda1->getJmlRoda(); ?></td>
83 <td><?=$sepeda1->getWarna(); ?></td>
84 <td><?=$sepeda1->getWarna(); ?></td>
85 <td><?=$sepeda1->getWarna(); ?></td>
86 <td><?=$sepeda1->getWarna(); ?></td>
87 <td><?=$sepeda1->getWarna(); ?></td>
88 <td><?=$sepeda1->getWarna(); ?></td>
89 <td><?=$sepeda1->getJmlSadel(); ?></td>
90 <td><?=$sepeda1->getJmlGir(); ?></td>
91 </tr>
92 </tr>
93 </tr>
```

```
File Edit Selection View Go Run Terminal Help 2b.php - Vscode - Visual Studio Code
2b.php
80 <td>5</td>
81 <td>Sepeda 1</td>
82 <td><?=$sepeda1->getJmlRoda(); ?></td>
83 <td><?=$sepeda1->getWarna(); ?></td>
84 <td><?=$sepeda1->getWarna(); ?></td>
85 <td><?=$sepeda1->getWarna(); ?></td>
86 <td><?=$sepeda1->getWarna(); ?></td>
87 <td><?=$sepeda1->getWarna(); ?></td>
88 <td><?=$sepeda1->getWarna(); ?></td>
89 <td><?=$sepeda1->getJmlSadel(); ?></td>
90 <td><?=$sepeda1->getJmlGir(); ?></td>
91 </tr>
92 </tr>
93 </tr>
94 <td>6</td>
95 <td>Sepeda 2</td>
96 <td><?=$sepeda2->getJmlRoda(); ?></td>
97 <td><?=$sepeda2->getWarna(); ?></td>
98 <td><?=$sepeda2->getWarna(); ?></td>
99 <td><?=$sepeda2->getWarna(); ?></td>
100 <td><?=$sepeda2->getWarna(); ?></td>
101 <td><?=$sepeda2->getWarna(); ?></td>
102 <td><?=$sepeda2->getWarna(); ?></td>
103 <td><?=$sepeda2->getJmlSadel(); ?></td>
104 <td><?=$sepeda2->getJmlGir(); ?></td>
105 </tr>
106 </table>
107 </div>
108 </body>
109 </html>
```