Tugas Pemrograman Berorientasi Objek Praktikum 6



Nama:

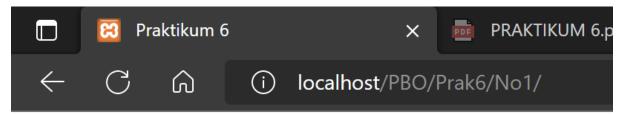
Riska Octavia Arianto 21091397059

DIV MANAJEMEN INFORMATIKA PROGRAM VOKASI UNIVERSITAS NEGERI SURABAYA TAHUN AJARAN 2021/2022

Source Code:

```
No1 > 💝 Index.php > ...
      <!-- Praktikum 6 -->
      require_once 'no1.php';
      <!DOCTYPE html>
      <html lang="en">
          <title>Praktikum 6</title>
          <div class="container">
              <h2 class="text-center">Praktikum 6</h2>
              <div class="row">
                  <div class="col-5 mx-auto border p-3 mt-2">
                      <h4 class="text-center">Soal 1</h4>
                      <?= $truck->getMaxLoad(); ?> <br>
                      <?= $truck->addBox(3000); ?> <br>
                      <?= $truck->addBox(1000); ?> <br>
                      <?= $truck->addBox(6000); ?> <br>
                      <?= $truck->addBox(8000); ?> <br>
                      echo "Butuh Bahan Bakar " . $truck->calcFuelNeeds() . ' Liter'. '<br>';
                      <br>
                      <?= $riverBarge->addBox(3000); ?> <br>
                      <?= $riverBarge->addBox(1000); ?> <br>
                      <?= $riverBarge->addBox(6000); ?> <br>
                      <?= $riverBarge->addBox(8000); ?> <br>
                      <?= $riverBarge->addBox(9000); ?> <br>
                      echo 'Maksimal muatan Perahu ' . $riverBarge->getMaxLoad() . '<br>';
                      echo 'Maksimal muatan Perahu ' . $riverBarge->getMaxLoad() . '<br>';
                      echo "Butuh Bahan Bakar " . $riverBarge->calcFuelNeeds() . ' Liter';
         </div>
```

```
No1 > ♠ no1.php > PHP Intelephense > ♠ Truck > ♠ _construct
       <?php
       require once '../Interface Abstract/abstract.php';
       class Truck extends Vehicle {
           public function __construct($maxLoad, $name)
               $this->maxLoad = $maxLoad;
              $this->name = $name;
 10
 11
 12
           public function calcFuelNeeds()
 13
               $fuel = $this->calcFuelEfficiency();
 14
 15
               $trip = $this->calcTripDistance();
 16
 17
               return ceil($fuel /= $trip);
 18
 19
       }
 20
 21
       class RiverBarge extends Vehicle {
 22
           public function __construct($maxLoad, $name)
 23
               $this->maxLoad = $maxLoad;
 24
 25
               $this->name = $name;
 26
 27
 28
           public function calcFuelNeeds()
 29
               $fuel = $this->calcFuelEfficiency();
 30
 31
               $trip = $this->calcTripDistance();
 32
 33
               return ceil($fuel /= $trip);
 34
 35
      $truck = new Truck(10000, 'Truk');
 36
      $riverBarge = new RiverBarge(15000, 'Perahu');
 37
```



Praktikum 6

Soal 1

Maksimal muatan Truk 10000
Truk menambah muatan sebesar 3000
Truk menambah muatan sebesar 1000
Truk menambah muatan sebesar 6000
Truk menambah muatan sebesar 8000
Muatan telah penuh tidak bisa menambah lagi
Butuh Bahan Bakar 10 Liter

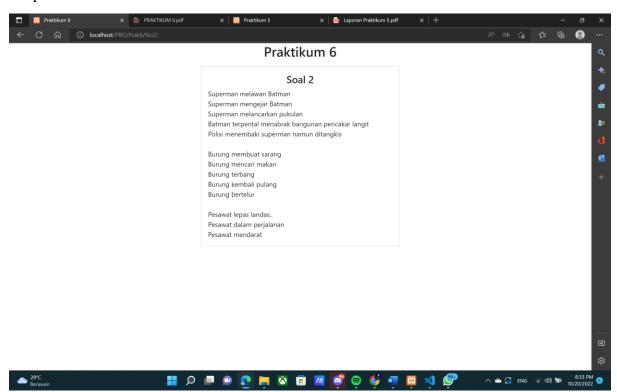
Perahu menambah muatan sebesar 3000 Perahu menambah muatan sebesar 1000 Perahu menambah muatan sebesar 6000 Perahu menambah muatan sebesar 8000 Perahu menambah muatan sebesar 9000 Muatan telah penuh tidak bisa menambah lagi Maksimal muatan Perahu Maksimal muatan Perahu 15000 Butuh Bahan Bakar 6 Liter

Source Code:

```
<!-- Nama : Riska Octavia Arianto -->
<!-- NIM : 21091397059 -->
<!-- Kelas : D4 Manajemen Informatika 2021A -->
<html lang="en">
                        \textbf{integrity} = \textbf{s} \textbf{ha} 384 - \textbf{1BmE} 4 \textbf{kWBq} 78 \textbf{i} Y \textbf{hF} \textbf{IdvKuhfTAU6} \textbf{auU8} \textbf{t} \textbf{T94WrHftjDbrCEXSU10Boqy} \textbf{12QvZ6jIW3}^{\text{"}} \textbf{ crossorigin} = \text{"anonymous"} > \textbf{12QvZ6jIW3}^{\text{"}} \textbf{ crossorigin} = \textbf{12QvZ6jIW3}^{\text{"}} \textbf{ crossorigi
                     <title>Praktikum 6</title>
                                          <h2 class="text-center">Praktikum 6</h2>
                                                                                    <h4 class="text-center">Soal 2</h4>
                                                                                     <?= $superman->land(); ?> <br>
                                                                                    <?= $superman->takeOff(); ?> <br>
                                                                                     <?= $superman->fly(); ?> <br>
                                                                                     <?= $superman->leapBuilding(); ?> <br>
                                                                                      <?= $superman->stopBullet(); ?> <br>
                                                                                     <?= $bird->buildNest(); ?> <br>
                                                                                      <?= $bird->takeOff(); ?> <br>
                                                                                      <?= $bird->fly(); ?> <br>
                                                                                      <?= $bird->land(); ?> <br>
                                                                                     <?= $bird->layEggs(); ?> <br>
                                                                                        <?= $airplane->takeOff(); ?> <br>
                                                                                        <?= $airplane->fly(); ?> <br>
```

```
No2 > 💏 no2.php > ...
      <?php
      require_once '../Interface Abstract/Interface.php';
      class Airplane implements Flyer {
          public function takeOff() {
              return 'Pesawat lepas landas..';
          public function land() {
             return 'Pesawat mendarat';
 11
 12
 13
          public function fly() {
 14
 15
             return 'Pesawat dalam perjalanan';
 17
 18
 19
      class Bird implements Flyer {
          public function takeOff() {
              return 'Burung mencari makan';
 21
 22
 23
          public function land() {
             return 'Burung kembali pulang';
 25
 27
          public function fly() {
 29
             return 'Burung terbang';
 31
          public function buildNest() {
 32
              return 'Burung membuat sarang';
 34
 36
          public function layEggs() {
              return 'Burung bertelur';
 37
```

```
40
     class Superman implements Flyer {
42
         public function takeOff() {
             return 'Superman mengejar Batman';
44
         public function land() {
47
             return 'Superman melawan Batman';
49
         public function fly() {
             return 'Superman melancarkan pukulan';
         public function leapBuilding() {
             return 'Batman terpental menabrak bangunan pencakar langit';
         public function stopBullet() {
             return 'Polisi menembaki superman namun ditangkis';
     $airplane = new Airplane;
64
     $bird = new Bird;
65
     $superman = new Superman;
```



6.3

Source Code:

```
No3 > 💝 index.php > ...
      <!-- Nama : Riska Octavia Arianto -->
      <!-- NIM
                  : 21091397059 -->
      <!-- Kelas : D4 Manajemen Informatika 2021A -->
      <!-- Praktikum 6 -->
      <?php
      require_once 'No3.php';
      ?>
      <!DOCTYPE html>
 10
 11
      <html lang="en">
 12
 13
      <head>
 14
 15
          <title>Praktikum 6</title>
      </head>
 17
 18
      <body>
 19
           <div class="container">
               <h2 class="text-center">Praktikum 6</h2>
 20
               <div class="row">
 21
                   <div class="col-5 mx-auto border p-3 mt-2">
 22
                       <h4 class="text-center">Soal 3</h4>
 23
                       <?= $singa->eat(); ?> <br>
                      <?= $manusia->eat(); ?> <br>
 25
                       <br>
                       <?= $airplane2->getMaxLoad(); ?> <br>
 27
                       <?= $airplane2->addBox(5000); ?> <br>
 28
 29
                       <?= $airplane2->addBox(7000); ?> <br>
                       <?= $airplane2->addBox(3000); ?> <br>
 30
                       <?= $airplane2->addBox(2000); ?> <br>
 31
 32
                      <?= $airplane2->calcFuelNeeds(); ?> <br>
                       <?= $airplane2->takeOff(); ?> <br>
                       <?= $airplane2->fly(); ?> <br>
                       <?= $airplane2->land(); ?> <br>
                       <br>
 36
                       <?= $superman2->eat(); ?> <br>
 37
                       <?= $superman2->land(); ?> <br>
                       <?= $superman2->takeOff(); ?> <br>
```

No3.php

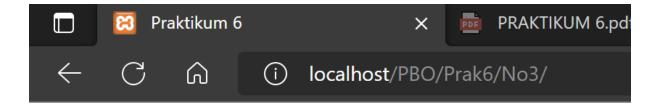
```
No3 > ♠ No3.php > PHP Intelephense > ♠ Airplane2 > ♠ takeOff
       <?php
       require_once '../Interface Abstract/Abstract.php';
       require_once '../Interface Abstract/Interface.php';
       class Animal
           protected $name;
           public function construct($name)
 10
 11
               $this->name = $name;
 12
 13
 14
           public function eat()
 15
               return $this->name . ' sedang makan';
 17
 18
 19
 21
       class Homosapiens extends Animal {}
 22
 23
       class Airplane2 extends Vehicle implements Flyer
 24
           public function __construct($maxLoad, $name)
 25
 26
 27
               $this->maxLoad = $maxLoad;
 28
               $this->name = $name;
 29
           public function takeOff()
 31
 32
 33
               return "$this->name lepas landas";
 34
 35
 36
           public function land()
 37
               return "$this->name mendarat";
 38
```

```
No3 > ♠ No3.php > PHP Intelephense > �� Airplane2 > �� takeOff
           public function fly()
               return "$this->name dalam perjalanan";
           public function calcFuelNeeds()
               $fuel = $this->calcFuelEfficiency();
               $trip = $this->calcTripDistance();
               echo $this->name . ' membutuhkan bahan bakar sebanyak ';
               return ceil($fuel /= $trip);
      class Superman2 extends Homosapiens implements Flyer
           public function takeOff()
               return "$this->name mengejar Batman";
           public function land()
               return "$this->name melawan Batman";
           public function fly()
 70
               return "$this->name melancarkan pukulan";
           public function leapBuilding()
               return "Batman terpental menabrak bangunan pencakar langit";
```

```
public function stopBullet()

freturn "Polisi menembaki $this->name namun ditangkis";

freturn "Polisi
```



Praktikum 6

Soal 3

Singa sedang makan Andi sedang makan

Maksimal muatan Garuda Air 20000 Garuda Air menambah muatan sebesar 5000 Garuda Air menambah muatan sebesar 7000 Garuda Air menambah muatan sebesar 3000 Garuda Air menambah muatan sebesar 2000 Garuda Air membutuhkan bahan bakar sebanyak 6 Garuda Air lepas landas Garuda Air dalam perjalanan Garuda Air mendarat

Superman sedang makan
Superman melawan Batman
Superman mengejar Batman
Superman melancarkan pukulan
Batman terpental menabrak bangunan pencakar langit
Polisi menembaki Superman namun ditangkis

Source Code:

```
\P Index.php \gt \diamondsuit html \gt \diamondsuit body \gt \diamondsuit div.container \gt \diamondsuit div.row \gt \diamondsuit div \gt \diamondsuit br
<!-- Nama : Riska Octavia Arianto -->
<!-- NIM : 21091397059 -->
<!-- Kelas : D4 Manajemen Informatika 2021A -->
<html lang="en">
<title>Praktikum 6</title>
     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"</pre>
     integrity="sha384-1BmE4kwBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
          <h2 class="text-center">Praktikum 6</h2>
   <h4 class="text-center">Soal 4</h4>
                   <?= $riverBarge2->getMaxLoad(); ?> <br>
                   <?= $riverBarge2->addBox(12000); ?> <br>
                   <?= $riverBarge2->addBox(15000); ?> <br>
                   <?= $riverBarge2->addBox(1000); ?> <br>
                   <?= $riverBarge2->addBox(3000); ?> <br>
                   <?= $riverBarge2->dock(); ?> <br>
                   <?= $riverBarge2->cruise(); ?> <br>
                   <?= $riverBarge2->calcFuelNeeds(); ?> <br>
                   <?= $seaPlane->getMaxLoad(); ?> <br>
                   <?= $seaPlane->addBox(12000); ?> <br>
                   <?= $seaPlane->addBox(8000); ?> <br>
                   <?= $seaPlane->addBox(3000); ?> <br>
```

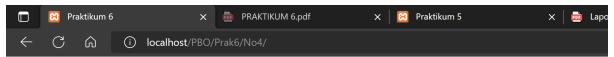
```
<?= $seaPlane->dock(); ?> <br>
41
                     <?= $seaPlane->cruise(); ?> <br>
                     <?= $seaPlane->takeOff(); ?> <br>
42
                     <?= $seaPlane->fly(); ?> <br>
                     <?= $seaPlane->land(); ?> <br>
                     <?= $seaPlane->calcFuelNeeds(); ?> <br>
         </div>
         <div>
47
                     <h4>-----
                                                 -----/h4>
                     <?= $helicopter->getMaxLoad(); ?> <br>
                     <?= $helicopter->addBox(8000); ?> <br>
51
                     <?= $helicopter->addBox(2000); ?> <br>
                     <?= $helicopter->addBox(3000); ?> <br>
52
                     <?= $helicopter->takeOff(); ?> <br>
54
                     <?= $helicopter->fly(); ?> <br>
                     <?= $helicopter->land(); ?> <br>
                     <?= $helicopter->calcFuelNeeds(); ?> <br>
57
         </div>
       </div>
     </div>
     </body>
62
     </html>
```

no4.php

```
No4 > 🧌 no4.php > ...
      <?php
      require_once '../Interface Abstract/Abstract.php';
      require_once '../Interface Abstract/Interface.php';
      class RiverBarge2 extends Vehicle implements Sailer {
          public function __construct($maxLoad, $name) {
              $this->maxLoad = $maxLoad;
              $this->name = $name;
 11
 12
           public function calcFuelNeeds() {
 13
               $fuel = $this->calcFuelEfficiency();
              $trip = $this->calcTripDistance();
               echo $this->name . ' membutuhkan bahan bakar sebanyak ';
               return ceil($fuel /= $trip);
 17
          public function dock() {
              return $this->name . ' berada di dermaga';
 21
          public function cruise() {
              return $this->name . ' sedang berlayar';
      class Airplane2 implements Flyer {
          public function takeOff() {
              return 'Pesawat lepas landas';
           public function land() {
               return 'Pesawat mendarat';
 34
          public function fly() {
              return 'Pesawat dalam perjalanan';
       }
```

```
No4 > no4.php > ...
       class SeaPlane extends Vehicle implements Sailer {
          public function __construct($maxLoad, $name) {
 41
              $this->maxLoad = $maxLoad;
 42
              $this->name = $name;
          public function calcFuelNeeds() {
 47
              $fuel = $this->calcFuelEfficiency();
              $trip = $this->calcTripDistance();
              echo $this->name . ' membutuhkan bahan bakar sebanyak '
              return ceil($fuel /= $trip);
 52
          public function dock() {
              return $this->name . ' berada di dermaga';
          public function cruise() {
              return $this->name . ' sedang berlayar';
          public function takeOff() {
              return $this->name . ' lepas landas';
 62
          public function land() {
              return $this->name . ' mendarat';
          public function fly() {
              return $this->name . ' dalam perjalanan';
 70
 71
 73
 74
       class Helicopter extends Vehicle {
          public function __construct($maxLoad, $name) {
 75
 76
              $this->maxLoad = $maxLoad;
              $this->name = $name;
 78
```

```
public function calcFuelNeeds() {
81
              $fuel = $this->calcFuelEfficiency();
82
              $trip = $this->calcTripDistance();
              echo $this->name . ' membutuhkan bahan bakar sebanyak ';
              return ceil($fuel /= $trip);
          public function takeOff() {
              return $this->name . ' lepas landas';
87
          public function land() {
90
              return $this->name . ' mendarat';
          public function fly() {
              return $this->name . ' dalam perjalanan';
      $riverBarge2 = new RiverBarge2(30000, 'Atomic');
100
      $seaPlane = new SeaPlane(20000, 'Titanic');
      $helicopter = new Helicopter(10000, 'Brocklyn');
101
```



Praktikum 6 Soal 4

Maksimal muatan Atomic 30000

Atomic menambah muatan sebesar 12000

Atomic menambah muatan sebesar 15000

Atomic menambah muatan sebesar 1000

Atomic menambah muatan sebesar 3000

Atomic berada di dermaga

Atomic sedang berlayar

Atomic membutuhkan bahan bakar sebanyak 4

Maksimal muatan Titanic 20000

Titanic menambah muatan sebesar 12000

Titanic menambah muatan sebesar 8000

Titanic menambah muatan sebesar 3000

Muatan telah penuh tidak bisa menambah lagi

Titanic berada di dermaga

Titanic sedang berlayar

Titanic lepas landas

Titanic dalam perjalanan

Titanic mendarat

Titanic membutuhkan bahan bakar sebanyak 5

Maksimal muatan Brocklyn 10000

Brocklyn menambah muatan sebesar 8000

Brocklyn menambah muatan sebesar 2000

Brocklyn menambah muatan sebesar 3000

Muatan telah penuh tidak bisa menambah lagi

Brocklyn lepas landas

Brocklyn dalam perjalanan

Brocklyn mendarat

Brocklyn membutuhkan bahan bakar sebanyak 10
