

LAPORAN PRAK 6
PEMORAGRAMAN BERORIENTASI WEB (PBO)



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PROGRAM STUDI D4 MANAJEMEN INFORMATIKA
FAKULTAS VOKASI
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No.1.php

```
no1.php  X  index.php  abstrak.php
NO.1 > no1.php > ...
1  |<?php
2
3  require_once 'abstrak.php';
4
5  class Truck extends Vehicle {
6      public function __construct($maxLoad, $name)
7      {
8          $this->maxLoad = $maxLoad;
9          $this->name = $name;
10     }
11
12     public function calcFuelNeeds()
13     {
14         $fuel = $this->calcFuelEfficiency();
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     {
24         $this->maxLoad = $maxLoad;
25         $this->name = $name;
26     }
27
28     public function calcFuelNeeds()
29     {
30         $fuel = $this->calcFuelEfficiency();
31         $trip = $this->calcTripDistance();
32
33         return ceil($fuel /= $trip);
34     }
35 }
36 $truck = new Truck(10000, 'Truk');
37 $riverBarge = new RiverBarge(12000, 'Perahu');
```

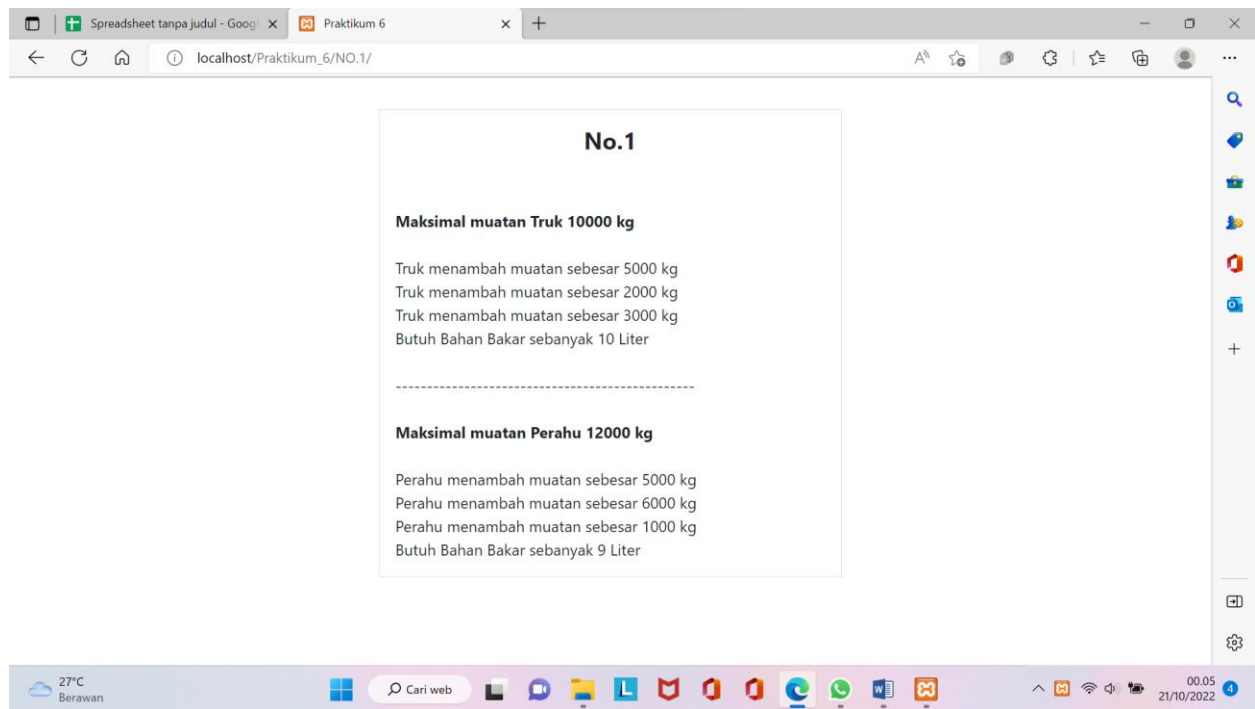
Indeks.php

```
no1.php index.php X abstrak.php
NO.1 > index.php > ...
1  <?php
2      require_once 'no1.php';
3  >>
4
5  <!DOCTYPE html>
6  <html lang="id">
7
8  <head>
9      <!-- Bootstrap CSS -->
10     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
11         integrity="sha384-18mE4kWBq78iYhF1dvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqy12QvZ6jIW3" crossorigin="anonymous">
12
13     <title>Praktikum 6</title>
14 </head>
15
16 <body>
17     <div class="container">
18         <br>
19         <div class="row">
20             <div class="col-5 mx-auto border p-3 mt-2">
21                 <h4 class="text-center"><strong>No.1</strong></h4>
22                 <br><br>
23                 <b><?= $truck->getMaxLoad() . ' kg'; ?> <br></b>
24                 <br>
25                 <?= $truck->addBox(5000) . ' kg'; ?> <br>
26                 <?= $truck->addBox(2000) . ' kg'; ?> <br>
27                 <?= $truck->addBox(3000) . ' kg'; ?> <br>
28
29                 <?php
30                     echo "Butuh Bahan Bakar sebanyak " . $truck->calcFuelNeeds() . ' Liter'. '<br>';
31                 ?>
32                 <br>
33                 -----
34                 <br>
35                 <br>
36                 <b><?= $riverBarge->getMaxLoad() . ' kg'; ?> <br></b>
37                 <br>
38                 <?= $riverBarge->addBox(5000) . ' kg'; ?> <br>
39                 <?= $riverBarge->addBox(6000) . ' kg'; ?> <br>
40                 <?= $riverBarge->addBox(1000) . ' kg'; ?> <br>
41
42                 <?php
43                     echo "Butuh Bahan Bakar sebanyak " . $riverBarge->calcFuelNeeds() . ' Liter';
44                 ?>
45             </div>
46         </div>
47     </div>
48 </body>
49
50 </html>
```

Abstrak.php

```
no1.php index.php abstrak.php X
NO.1 > abstrak.php > ...
1  k?php
2
3  abstract class Vehicle {
4      private $load = 0;
5      protected $maxLoad = 0, $name;
6
7      protected function __construct($maxLoad, $name) {
8          $this->$maxLoad = $maxLoad;
9          $this->$name = $name;
10     }
11
12     public function getLoad() {
13         return $this->load;
14     }
15
16     public function getMaxLoad() {
17         echo 'Maksimal muatan ' . $this->name . ' ' ;
18         return $this->maxLoad;
19     }
20
21     public function addBox($weight) {
22         if ($this->load >= $this->maxLoad) {
23             echo "$this->name menambah muatan sebesar $weight <br>";
24             echo 'Muatan telah penuh tidak bisa menambah lagi';
25         }else {
26             $this->load += $weight;
27             echo "$this->name menambah muatan sebesar $weight";
28         }
29     }
30
31     abstract public function calcFuelNeeds();
32
33     protected function calcFuelEfficiency() {
34         $range = 50000000;
35         $range /= $this->load;
36         return $range;
37     }
38
39     protected function calcTripDistance() {
40         return 500;
41     }
42 }
```

Output



No.2.php

```

no2.php x index.php layer.php
NO2 > no2.php > ...
1 | k?php
2
3 | require_once 'layer.php';
4
5 | class Airplane implements Flyer {
6 |     public function takeOff() {
7 |         return 'Pesawat meninggalkan Bandara';
8 |     }
9
10 |     public function land() {
11 |         return 'Pesawat mendarat menuju Bandara terdekat';
12 |     }
13
14 |     public function fly() {
15 |         return 'Pesawat menerjang Badai';
16 |     }
17 | }
18
19 | class Bird implements Flyer {
20 |     public function takeOff() {
21 |         return 'Burung menghindari Pemburu';
22 |     }
23
24 |     public function land() {
25 |         return 'Burung kembali ke sarangnya';
26 |     }
27
28 |     public function fly() {
29 |         return 'Burung mengejar mangsanya di langit';
30 |     }
31
32 |     public function buildNest() {
33 |         return 'Burung membuat sarang';
34 |     }
35
36 |     public function layEggs() {
37 |         return 'Burung bertelur';
38 |     }
39 | }
40
41 | class Superman implements Flyer {
42 |     public function takeOff() {
43 |         return 'Superman menyelamatkan orang terjatuh dari gedung tinggi';
44 |     }
45
46 |     public function land() {
47 |         return 'Superman menghentikan kecelakaan lalu lintas';
48 |     }
49
50 |     public function fly() {
51 |         return 'Superman terbang menuju ke markas utama musuh';
52 |     }
53
54 |     public function leapBuilding() {
55 |         return 'Superman melompat antara gedung satu ke gedung yang lainnya';
56 |     }
57
58 |     public function stopBullet() {
59 |         return 'Superman ditembaki pencuri namun dihindari';
60 |     }
61 | }
62
63 | $airplane = new Airplane;
64 | $bird = new Bird;
65 | $superman = new Superman;

```

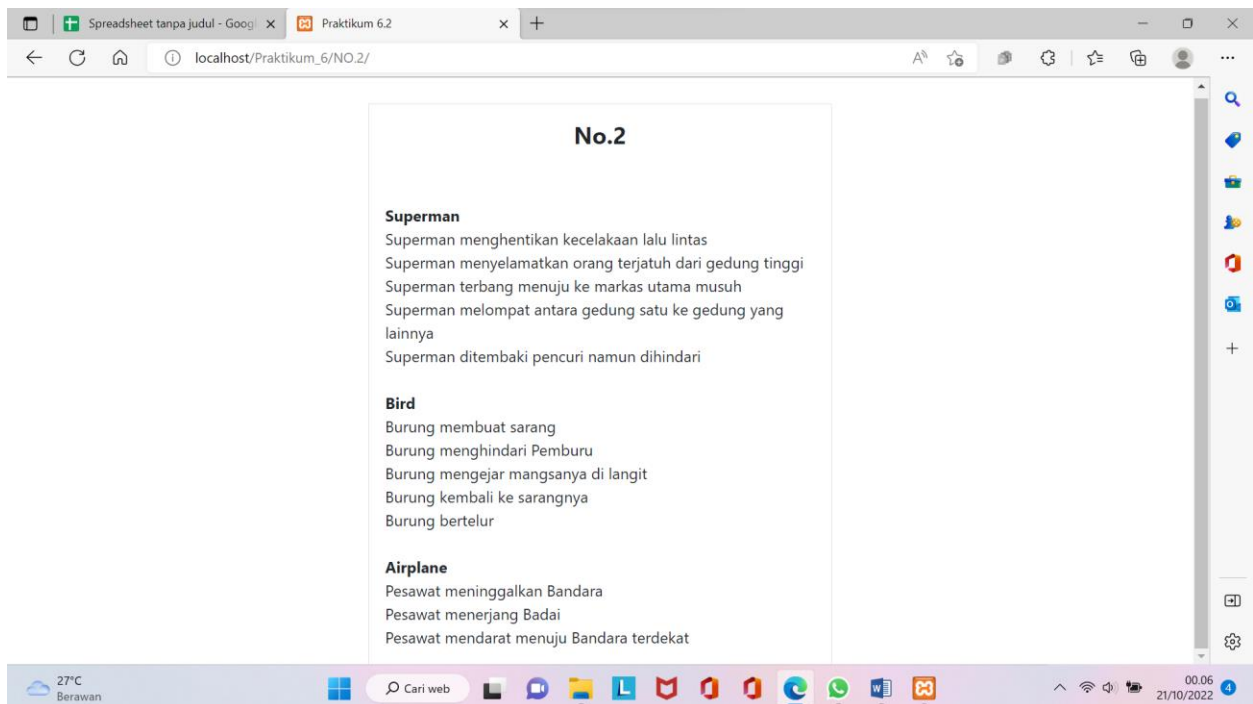
Index.php

```
no2.php index.php X layer.php
NO.2 > index.php > ...
1  <?php
2      require_once 'no2.php';
3  ?>
4
5  <!DOCTYPE html>
6  <html lang="en">
7
8  <head>
9      <!-- Bootstrap CSS -->
10     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
11         integrity="sha384-18mE4kMBq78iYhF1dvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqy12QvZ6jIW3" crossorigin="anonymous">
12
13     <title>Praktikum 6.2</title>
14 </head>
15
16 <body>
17     <div class="container">
18         <br>
19         <div class="row">
20             <div class="col-5 mx-auto border p-3 mt-2">
21                 <h4 class="text-center"><strong>No.2</strong></h4>
22                 <br><br>
23                 <b><?php
24                     echo "Superman";
25                     ?></b> <br>
26                     <?= $superman->land(); ?> <br>
27                     <?= $superman->takeOff(); ?> <br>
28                     <?= $superman->fly(); ?> <br>
29                     <?= $superman->leapBuilding(); ?> <br>
30                     <?= $superman->stopBullet(); ?> <br>
31                 <br>
32                 <b><?php
33                     echo "Bird";
34                     ?></b> <br>
35                     <?= $bird->buildNest(); ?> <br>
36                     <?= $bird->takeOff(); ?> <br>
37                     <?= $bird->fly(); ?> <br>
38                     <?= $bird->land(); ?> <br>
39                     <?= $bird->layEggs(); ?> <br>
40                 <br>
41                 <b><?php
42                     echo "Airplane";
43                     ?></b> <br>
44                     <?= $airplane->takeOff(); ?> <br>
45                     <?= $airplane->fly(); ?> <br>
46                     <?= $airplane->land(); ?> <br>
47                 </div>
48             </div>
49         </div>
50     </body>
51
52 </html>
```

Layer.php

```
no2.php index.php layer.php X
NO.2 > layer.php > ...
1 <?php
2
3 interface Flyer {
4     public function takeOff();
5     public function land();
6     public function fly();
7 }
8
9 interface Sailer {
10    public function dock();
11    public function cruise();
12 }
```

Output



No.3.php


```
no3.php x index.php abstrak.php layer.php ... no3.php x
NO3 > no3.php > Airplane2 > calcFuelNeeds
1 <?php
2
3 require_once 'abstrak.php';
4 require_once 'layer.php';
5
6 class Animal
7 {
8     protected $name;
9
10    public function __construct($name)
11    {
12        $this->name = $name;
13    }
14
15    public function home()
16    {
17        return $this->name . ' kembali pulang';
18    }
19 }
20
21 class Manusia2 extends Animal {}
22
23 class Airplane2 extends Vehicle implements Flyer
24 {
25     public function __construct($maxload, $name)
26     {
27         $this->maxload = $maxload;
28         $this->name = $name;
29     }
30
31     public function takeOff()
32     {
33         return "$this->name meninggalkan Bandara";
34     }
35
36     public function land()
37     {
38         return "$this->name mendarat menuju Bandara terdekat";
39     }
40
41     public function fly()
42     {
43         return "$this->name menerjang Badai";
44     }
45
46     public function calcFuelNeeds()
47     {
48         $fuel = $this->calcFuelEfficiency();
49         $strip = $this->calcTripDistance();
50
51
52         return ceil($fuel /- $strip);
53     }
54 }
55
56 class Superman2 extends Manusia2 implements Flyer
57 {
58     public function takeOff()
59     {
60         return "$this->name menyelamatkan orang terjatuh dari gedung tinggi";
61     }
62
63
64     public function land()
65     {
66         return "$this->name menghentikan kecelakaan lalu lintas";
67     }
68
69     public function fly()
70     {
71         return "$this->name terbang menuju ke markas utama musuh";
72     }
73
74     public function leapBuilding()
75     {
76         return "$this->name melompat antara gedung satu ke gedung yang lainnya";
77     }
78
79     public function stopBullet()
80     {
81         return "$this->name ditembaki pencuri namun dihindari";
82     }
83 }
84
85 $puma = new Animal('Kenari');
86 $manusia = new Manusia2('John');
87 $airplane2 = new Airplane2(15000, 'Garuda Indonesia');
88 $superman2 = new Superman2('Superman');
```

Indeks.php

```
no3.php index.php X abstrak.php layer.php
NO.3 > index.php > ...
1  <?php
2      require_once 'no3.php';
3  >
4
5  <!DOCTYPE html>
6  <html lang="id">
7
8  <head>
9      <!-- Bootstrap CSS -->
10     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
11         integrity="sha384-18mE4KM8q78iYhF1dvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqy12QvZ6jIW3" crossorigin="anonymous">
12
13     <title>Praktikum 6</title>
14 </head>
15 <body>
16     <div class="container">
17         <div class="row">
18             <div class="col-5 mx-auto border p-3 mt-2">
19                 <h4 class="text-center"><strong>No.3</strong></h4>
20                 <br><br>
21                 <?= $puma->home(); ?> <br>
22                 <?= $manusia->home(); ?> <br>
23                 <br>
24
25                 <b><?= $airplane2->getMaxLoad() . ' kg'; ?> <br></b>
26                 <?= $airplane2->addBox(2000) . ' kg'; ?> <br>
27                 <?= $airplane2->addBox(3000) . ' kg'; ?> <br>
28                 <?= $airplane2->addBox(7000) . ' kg'; ?> <br>
29                 <?= $airplane2->addBox(3000) . ' kg'; ?> <br>
30                 <?= $airplane2->takeOff(); ?> <br>
31                 <?= $airplane2->fly(); ?> <br>
32                 <?= $airplane2->land(); ?> <br>
33
34                 <?php
35                     echo "Butuh Bahan Bakar sebanyak " . $airplane2->calcFuelNeeds() . ' Liter'. '<br>';
36                     ?>
37                 <br>
38                 <?= $superman2->home(); ?> <br>
39                 <?= $superman2->land(); ?> <br>
40                 <?= $superman2->takeOff(); ?> <br>
41                 <?= $superman2->fly(); ?> <br>
42                 <?= $superman2->leapBuilding(); ?> <br>
43                 <?= $superman2->stopBullet(); ?> <br>
44             </div>
45         </div>
46     </div>
47 </body>
48
49 </html>
```

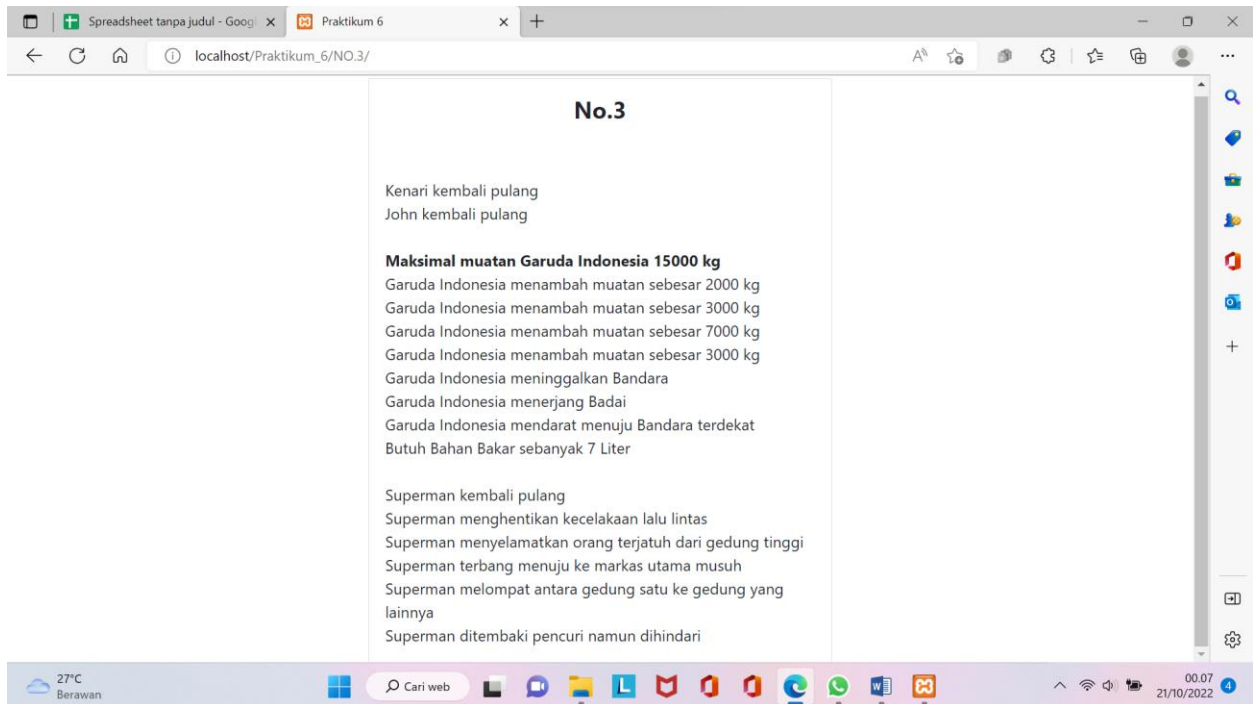
Abstrak.php

```
no3.php index.php abstrak.php X layer.php
NO.3 > abstrak.php > ...
1 <?php
2
3 abstract class Vehicle {
4     private $load = 0;
5     protected $maxLoad = 0, $name;
6
7     protected function __construct($maxLoad, $name) {
8         $this->$maxLoad = $maxLoad;
9         $this->$name = $name;
10    }
11
12    public function getLoad() {
13        return $this->load;
14    }
15
16    public function getMaxLoad() {
17        echo 'Maksimal muatan ' . $this->name . ' ' ;
18        return $this->maxLoad;
19    }
20
21    public function addBox($weight) {
22        if ($this->load >= $this->maxLoad) {
23            echo "$this->name menambah muatan sebesar $weight <br>";
24            echo 'Muatan telah penuh tidak bisa menambah lagi';
25        }else {
26            $this->load += $weight;
27            echo "$this->name menambah muatan sebesar $weight";
28        }
29    }
30
31    abstract public function calcFuelNeeds();
32
33    protected function calcFuelEfficiency() {
34        $range = 50000000;
35        $range /= $this->load;
36        return $range;
37    }
38
39    protected function calcTripDistance() {
40        return 500;
41    }
42 }
```

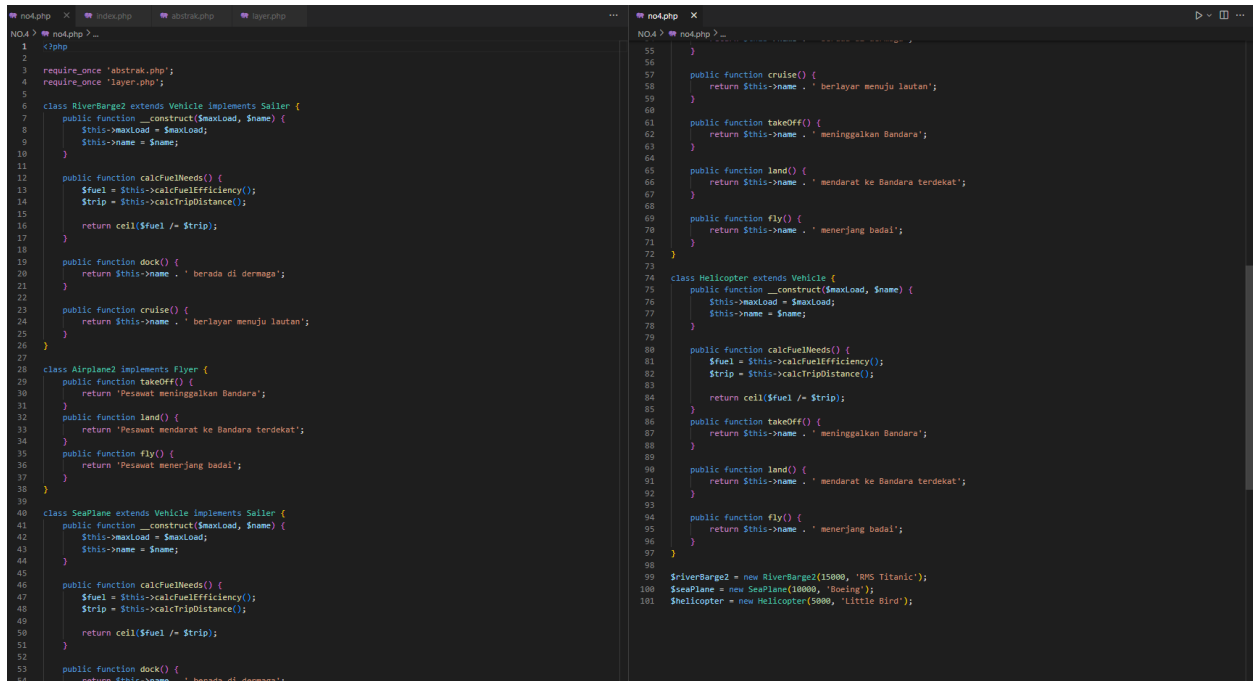
layer.php

```
no3.php index.php abstrak.php X layer.php X
NO.3 > layer.php > ...
1 <?php
2
3 interface Flyer {
4     public function takeOff();
5     public function land();
6     public function fly();
7 }
8
9 interface Sailer {
10     public function dock();
11     public function cruise();
12 }
```

Output



No.4.php



Index.php

```
no4.php index.php x abstrak.php layer.php
NO.4 > index.php > html > body > div.container > div.row
1 <?php
2     require_once 'no4.php';
3 ?>
4
5 <!DOCTYPE html>
6 <html lang="en">
7
8 <head>
9     <!-- Bootstrap CSS -->
10    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
11        integrity="sha384-1bneE4k0B0q781YHf1dvKuhfTAU6AuUBt194W/HfTjDbrCEXSU1oBoqy12QvZ6jIM3" crossorigin="anonymous">
12
13    <title>Praktikum 6</title>
14 </head>
15 <body>
16     <div class="container">
17         <div class="row">
18             <h4 class="text-center"><strong>No.4</strong></h4>
19             <br><br>
20             <div class="col-4 mx-auto border p-2 mt-2">
21                 <b><?= $riverBarge2->getMaxLoad() . ' kg'; ?> <br></b>
22                 <?= $riverBarge2->addBox(7000) . ' kg'; ?> <br>
23                 <?= $riverBarge2->addBox(1000) . ' kg'; ?> <br>
24                 <?= $riverBarge2->addBox(4000) . ' kg'; ?> <br>
25                 <?= $riverBarge2->addBox(3000) . ' kg'; ?> <br>
26                 <?= $riverBarge2->dock(); ?> <br>
27                 <?= $riverBarge2->cruise(); ?> <br>
28                 <?php
29                     echo "Butuh Bahan Bakar sebanyak " . $riverBarge2->calcFuelNeeds() . ' Liter'. '<br>';
30                 ?>
31             </div>
32             <div class="col-4 mx-auto border p-2 mt-2">
33                 <b><?= $seaPlane->getMaxLoad() . ' kg'; ?> <br></b>
34                 <?= $seaPlane->addBox(2000) . ' kg'; ?> <br>
35                 <?= $seaPlane->addBox(8000) . ' kg'; ?> <br>
36                 <?= $seaPlane->dock(); ?> <br>
37                 <?= $seaPlane->cruise(); ?> <br>
38                 <?= $seaPlane->takeOff(); ?> <br>
39                 <?= $seaPlane->fly(); ?> <br>
40                 <?= $seaPlane->land(); ?> <br>
41                 <?php
42                     echo "Butuh Bahan Bakar sebanyak " . $seaPlane->calcFuelNeeds() . ' Liter'. '<br>';
43                 ?>
44             </div>
45         </div>
46     </div>
47
48     <div class="col mx-auto border p-2 mt-2">
49         <b><?= $helicopter->getMaxLoad() . ' kg'; ?> <br></b>
50         <?= $helicopter->addBox(3000) . ' kg'; ?> <br>
51         <?= $helicopter->addBox(2000) . ' kg'; ?> <br>
52         <?= $helicopter->takeOff(); ?> <br>
53         <?= $helicopter->fly(); ?> <br>
54         <?= $helicopter->land(); ?> <br>
55         <?php
56             echo "Butuh Bahan Bakar sebanyak " . $helicopter->calcFuelNeeds() . ' Liter'. '<br>';
57         ?>
58     </div>
59 </body>
60 </html>
```

Abstrak.php

```
no4.php index.php abstrak.php X layer.php
NO.4 > abstrak.php > ...
1  <?php
2
3  abstract class Vehicle {
4      private $load = 0;
5      protected $maxLoad = 0, $name;
6
7      protected function __construct($maxLoad, $name) {
8          $this->$maxLoad = $maxLoad;
9          $this->$name = $name;
10     }
11
12     public function getLoad() {
13         return $this->load;
14     }
15
16     public function getMaxLoad() {
17         echo 'Maksimal muatan ' . $this->name . ' ' ;
18         return $this->maxLoad;
19     }
20
21     public function addBox($weight) {
22         if ($this->load >= $this->maxLoad) {
23             echo "$this->name menambah muatan sebesar $weight <br>";
24             echo 'Muatan telah penuh tidak bisa menambah lagi';
25         }else {
26             $this->load += $weight;
27             echo "$this->name menambah muatan sebesar $weight";
28         }
29     }
30
31     abstract public function calcFuelNeeds();
32
33     protected function calcFuelEfficiency() {
34         $range = 50000000;
35         $range /= $this->load;
36         return $range;
37     }
38
39     protected function calcTripDistance() {
40         return 500;
41     }
42 }
```

Layer.php

```
no4.php index.php abstrak.php layer.php X
NO.4 > layer.php > ...
1 <?php
2
3 interface Flyer {
4     public function takeOff();
5     public function land();
6     public function fly();
7 }
8
9 interface Sailer {
10    public function dock();
11    public function cruise();
12 }
```

Output

Spreadsheet tanpa judul - Google x Praktikum 6 x +

localhost/Praktikum_6/NO.4/

No.4

Maksimal muatan RMS Titanic 15000 kg RMS Titanic menambah muatan sebesar 7000 kg RMS Titanic menambah muatan sebesar 1000 kg RMS Titanic menambah muatan sebesar 4000 kg RMS Titanic menambah muatan sebesar 3000 kg RMS Titanic berada di dermaga RMS Titanic berlayar menuju lautan Butuh Bahan Bakar sebanyak 7 Liter	Maksimal muatan Boeing 10000 kg Boeing menambah muatan sebesar 2000 kg Boeing menambah muatan sebesar 8000 kg Boeing berada di dermaga Boeing berlayar menuju lautan Boeing meninggalkan Bandara Boeing menerjang badai Boeing mendarat ke Bandara terdekat Butuh Bahan Bakar sebanyak 10 Liter	Maksimal muatan Little Bird 5000 kg Little Bird menambah muatan sebesar 3000 kg Little Bird menambah muatan sebesar 2000 kg Little Bird meninggalkan Bandara Little Bird menerjang badai Little Bird mendarat ke Bandara terdekat Butuh Bahan Bakar sebanyak 20 Liter
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27°C Berawan Cari web 00.07 21/10/2022