TUGAS PEMPROGRAMAN BERORIENTASI OBJEK PRAKTIKUM 6

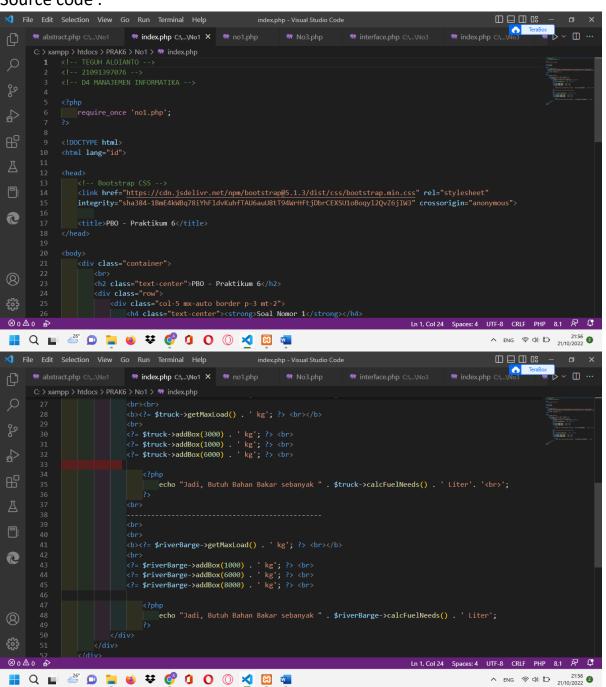
(Abstract Dan Interface)



Disusun oleh:

TEGUH ALDIANTO 21091397076

D4 MANAJEMEN INFORMATIKA
UNIVERSITAS NEGERI SURABAYA
2022



```
↑ TeraBox ↑ Index.php C:\...\No3 ↑ ↑ ∨ □ ···
                                                        ♣ no1.php X ♠ No3.php
             require_once '../no1/abstract.php';
                  5 references | 0 overrides | prototype public function __construct($maxLoad, $name)
                      $this->maxLoad = $maxLoad;
@
                 10 references | 0 overrides | prototype public function calcFuelNeeds()
                      $fuel = $this->calcFuelEfficiency();
$trip = $this->calcTripDistance();
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                                                                                                                                m index.php C:\...\No3
                                                                                                                                              no1.php × no3.php
                     $trip = $this->calcTripDistance();
                      return ceil($fuel /= $trip);
             5 references | 0 implementations class RiverBarge extends Vehicle {
                  5 references | 0 overrides | prototype public function __construct($maxLoad, $name)
                      $this->name = $name;
10 references | 0 overrides | prototype public function calcFuelNeeds()
@
                      $fuel = $this->calcFuelEfficiency();
$trip = $this->calcTripDistance();
                      return ceil($fuel /= $trip);
             $truck = new Truck(10000, 'Truk');
$riverBarge = new RiverBarge(15000, 'Perahu');
                                                                                                           Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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                                                                                                                                                                  ↑ TeraBox ↑ Index.php C:\...\No3 ↑ ↑ ∨ □ ···
        ** abstract.php C:\...\No1 X ** index.php C:\...\No1
                                                                                            m No3.php
        C: > xampp > htdocs > PRAK6 > No1 > ♠ abstract.php > ...
               <!-- TEGUH ALDIANTO -->
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                 14 references | 15 implementations abstract class Vehicle {
                     24 references

private $load = 0;

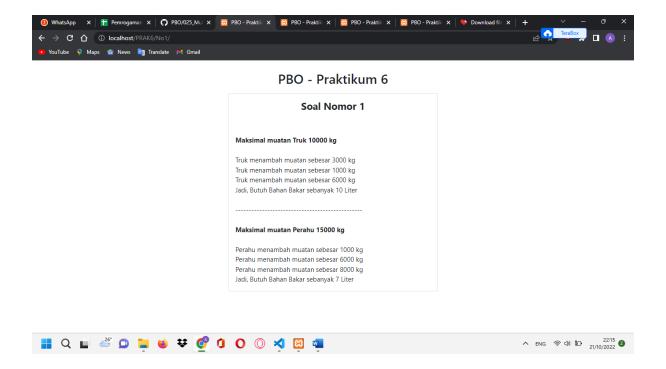
protected $maxLoad = 0, $name;
                      0 references | 14 overrides
protected function __construct($maxLoad, $name) {
    $this->$maxLoad = $maxLoad;
$this->$name = $name;
@
                      0 references | 0 overrides
public function getLoad() {
   return $this->load;
                    10 references | 0 overrides

public function getMaxLoad() {

echo 'Maksimal muatan ' . $this->name . ' ' ;

return $this->maxLoad:
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                                                                                                                                        Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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                                                                                                                                                                abstract.php - Visual Studio Code
                                                                                                                                                   ndex.php C:\...\No3
                                                                                                                                                                                   × □ ···
        ** abstract.php C:\...\No1 X ** index.php C:\...\No1 ** no1.php
                      30 references | 0 overrides
public function addBox($weight) {
   if ($this->load >= $this->maxLoad) {
      echo "$this->name menambah muatan sebesar $weight <br/>echo 'Muatan telah penuh tidak bisa menambah lagi';
                            }else {
    $this->load += $weight;
    echo "$this->name menambah muatan sebesar $weight";
10 references | 14 overrides abstract public function calcFuelNeeds();
@
                       14 references | 0 overrides
protected function calcFuelEfficiency() {
    $range = 50000000;
                            $range /= $this->load;
                            return $range;
                      14 references | 0 overrides protected function calcTripDistance() { return 500;
                                                                                                                                       Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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```

OUTPUT:



Analis:

Implementasi dari abstract class pada class Vehicle, method calcFuelNeeds digunakan untuk menghitung bahan bakar yang digunakan. Abstract method di letakkan pada class Vehiclesebagai parent class dan diakses oleh child classnya yaitu class Truk, dan class RiverBarge yangakan mengembalikan nilai yang dihasilkan dari pembagian 2 method yaitu calcFuelEfficiency dan calcTripDistance.

```
Tile Edit Selection View Go Run Terminal Help
                                             index.php - Visual Studio Code
                                                                                                  ndex.php C:\...\No2 X abstract.php C:\...\No1
         <html lang="en">
</pr
0
            <div class="container">
               Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🔊 🕻
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                                                                                        ** interface.php C:\...\No3
                                                                                                 × 🗆 ...
    ** index.php C:\...\No2 X ** abstract.php C:\...\No1
                     <?= $superman->land(); ?> <br><?= $superman->takeOff(); ?> <br>
                     <?= $superman->fly(); ?> <br>
<?= $superman->leapBuilding(); ?> <br>

                     <?= $superman->stopBullet(); ?> <br>
                     <?= $bird->takeOff(); ?> <br>
@
                     <?= $bird->land(); ?> <br>
<?= $bird->layEggs(); ?> <br>
                          echo "Airplane";
                     <?= $airplane->takeOff(); ?> <br>
                     <?= $airplane->fly(); ?> <br>
<?= $airplane->land(); ?> <br>
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                                                                          Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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```

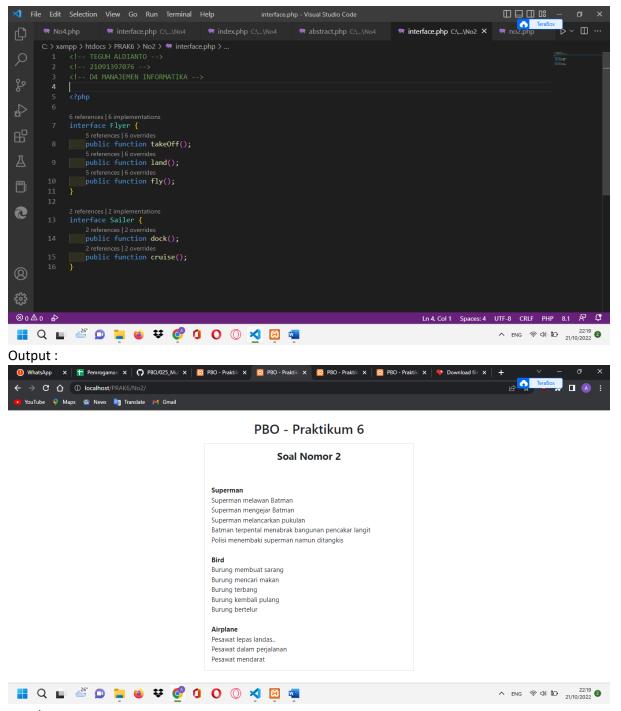
```
m interface.php C:\...\No2
            1 <!-- TEGUH ALDIANTO -->
2 <!-- 21091397076 -->
3 <!-- D4 MANAJEMEN INFORMATIKA -->
            7 require_once '../No2/interface.php';
                       5 references | 0 overrides
public function takeOff() {
    return 'Pesawat lepas landas..';
5 references | 0 overrides
public function land() {
    return 'Pesawat mendarat';
@
                       5 references | 0 overrides
public function fly() {
    return 'Pesawat dalam perjalanan';
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                                                                                                                                                                       ↑ TeraBox → III ···
                 1 reference | 0 implementations class Bird implements Flyer {
                       5 references | 0 overrides
public function takeOff() {
   return 'Burung mencari makan';
                       5 references | 0 overrides
public function land() {
return 'Burung kembali pulang';
5 references | 0 overrides
public function fly() {
    return 'Burung terbang';
}
@
                       1 reference | 0 overrides
public function buildNest() {
    return 'Burung membuat sarang';
}
                       1 reference | 0 overrides
public function layEggs() {
    return 'Burung bertelur';
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```
m interface.php C:\...\No2
               1 reference | 0 implementations class Superman implements Flyer {
                    5 references | 0 overrides
public function takeOff() {
                    5 references | 0 overrides public function land() {
                    return 'Superman melawan Batman';
5 references | O overrides
public function fly() {
    return 'Superman melancarkan pukulan';
@
                    1 reference | 0 overrides

public function leapBuilding() {
    return 'Batman terpental menabrak bangunan pencakar langit';
        1 reference | 0 overrides
62 public function stopBullet() {
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                                                                                                                                                5 references | 0 overrides
public function fly() {
    return 'Superman melancarkan pukulan';
}
                    1 reference | 0 overrides
public function leapBuilding() {
    return 'Batman terpental menabrak bangunan pencakar langit';
}
@
                    1 reference | O overrides

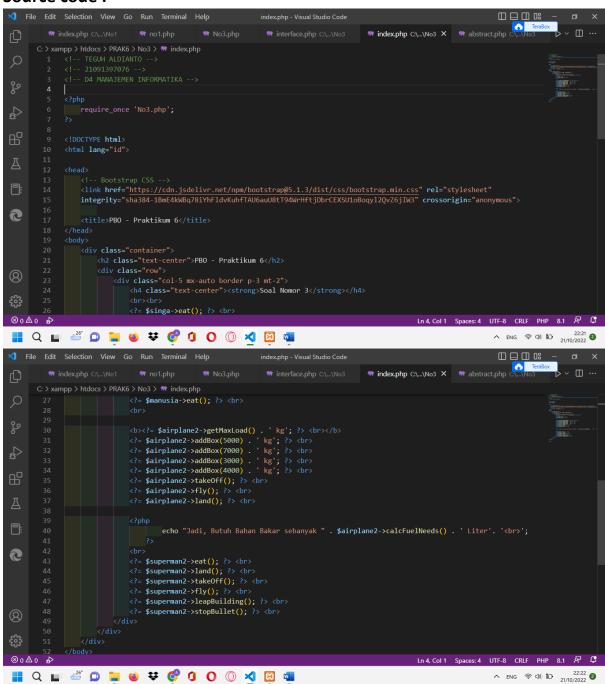
public function stopBullet() {

    return 'Polisi menembaki superman namun ditangkis';
               $airplane = new Airplane;
$bird = new Bird;
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Analis:

Implementasi Polymhorpism dengan penggunaan Interface Flyer sehingga semua class yangImplements dari interface Fyler harus memiliki method takeoff, land, dan fly.



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↑ TeraBox ↑ → □ ···
        not.php C:\...\No1  not.php  No3.php X interface.php C:\...\No3
                                                                                  ndex.php C:\...\No3
         require_once '../No3/abstract.php';
require_once '../No3/interface.php';
               6 references
protected $name;
@
               3 references | 0 overrides public function eat()
⊗ 0 ∆ 0 ⊗
                                                                                              Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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                                                                                                                No3.php - Visual Studio Code
                                                                                                       abstract.php C:\...\No3
                                                                                                                            > ~ III ···
                                          2 references | 1 implementation
25 class Homosapiens extends Animal {}
           1 reference | 0 implementations
class Airplane2 extends Vehicle implements Flyer
                1 reference | 0 overrides | prototype
public function __construct($maxLoad, $name)
$this->name = $name;
@
               5 references | 0 overrides public function takeOff()
                5 references | 0 overrides
public function land()
                                                                                             Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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↑ TeraBox ↑ → □ ···
                                           ndex.php C:\...\No3
                    return "$this->name mendarat";
                10 references | 0 overrides | prototype public function calcFuelNeeds()
                   $fuel = $this->calcFuelEfficiency();
$trip = $this->calcTripDistance();
@
                   return ceil($fuel /= $trip);
       1 reference | 0 implementations
61 class Superman2 extends Homosapiens implements Flyer
⊕ 0 ∆ 0 ⊗
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    No3.php  
    ★ interface.php C:\...\No3

                5 references | 0 overrides public function takeOff()
                5 references | 0 overrides public function land()
                   return "$this->name melawan Batman";
@
                1 reference | 0 overrides
public function leapBuilding()
                1 reference | 0 overrides
public function stopBullet()
                                                                                                Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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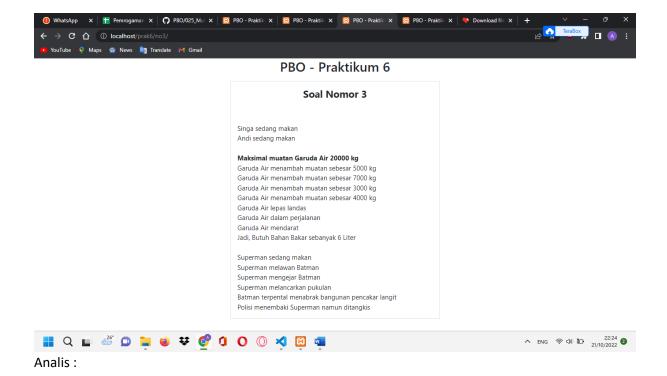
```
↑ TeraBox ↑ → □ ···
         ndex.php C:\...\No3
                1 reference | 0 overrides
public function leapBuilding()
1 reference | 0 overrides
public function stopBullet()
@
                    return "Polisi menembaki $this->name namun ditangkis";
            $manusia = new Homosapiens('Andi');
$airplane2 = new Airplane2(20000, 'Garuda Air');
$superman2 = new Superman2('Superman');
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      C: > xampp > htdocs > PRAK6 > No3 > ♥ interface.php > ...
           5 references | 6 overrides
public function takeOff();
            5 references | 6 overrides
public function land();
              5 references | 6 overrides public function fly();
2 references | 2 implementations
13 interface Sailer {
@
       2 references | 2 overrides
14 public function dock();
                                                                                                 Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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abstract.php C:\...\No3 × ▷ ∨ Ⅲ ···
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           1 <!-- TEGUH ALDIANTO -->
2 <!-- 21091397076 -->
3 <!-- D4 MANAJEMEN INFORMATIKA -->
                    24 references

private $load = 0;

protected $maxLoad = 0, $name;
                     0 references | 14 overrides
protected function __construct($maxLoad, $name) {
   $this->$maxLoad = $maxLoad;
$this->$name = $name;
@
                     0 references | 0 overrides
public function getLoad() {
    return $this->load;
}
                   10 references | 0 overrides public function getMaxLoad() {
    echo 'Maksimal muatan ' . $this->name . ' ';
    return $this->maxLoad:
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                                                                                                                                                  30 references | 0 overrides
public function addBox($weight) {
   if ($this->load >= $this->maxLoad) {
      echo "$this->name menambah muatan sebesar $weight <br/>";
                                se {
    $this->load += $weight;
    echo "$this->name menambah muatan sebesar $weight";
                      10 references | 14 overrides abstract public function calcFuelNeeds();
0
                     14 references | 0 overrides
protected function calcFuelEfficiency() {
    $range = 50000000;
    $range /= $this->load;
                           return $range;
                                                                                                                                    Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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```

Output:



Terdapat interface Flyer dan abtract class Vehicle. Class airplane implementasi dari interfaceFlyer dan turunan dari Vehicle sehingga class Airplane harus memiliki method calcFuelNeeds, takeoff, land, dan fly. Class Bird implementasi dari Flyer dan turunan dari Animal sehingga memiliki method takeoff, land, fly, dan eat. Class Superman turunan dari homosapiens yang jugaturunan dari Animal, serta implementasi dari interface Flyer. Maka class Superman memiliki method eat, takeoff, land, fly.

```
m interface.php C:\...\No2
                                                                     m index.php C:\...\No4 X m abstract.php C:\...\No4
             <html lang="en">
                   <!-- Bootstrap CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAUGauU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
@
                  <title>PBO - Praktikum 6</title>
                       <h2 class="text-center">PBO - Praktikum 6</h2>
(Q)
                 <h4 class="text-center"><strong>Soal Nomor 4</strong></h4>
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                                                                                                                                     m index.php C:\...\No4 X m abstract.php C:\...\No4
                                         m interface.php C:\...\No4
nct.php C:\...\No3
       C: > xampp > htdocs > PRAK6 > No4 > ♥ index.php
                               <?= $riverBarge2->addBox(12000) . ' kg'; ?> <br>
<?= $riverBarge2->addBox(14000) . ' kg'; ?> <br>
<?= $riverBarge2->addBox(1000) . ' kg'; ?> <br>
<?= $riverBarge2->addBox(3000) . ' kg'; ?> <br>
<?= $riverBarge2->addBox(3000) . ' kg'; ?> <br>

                                <?= $riverBarge2->dock(); ?> <br>
<?= $riverBarge2->cruise(); ?> <br>
                                        echo "Jadi, Butuh Bahan Bakar sebanyak " . $riverBarge2->calcFuelNeeds() . ' Liter'. '<br>';
                                col-4 mx-auto border p-2 mc-2 >
<b><?= $seaPlane->getMaxLoad() . ' kg'; ?> <br></b>
<?= $seaPlane->addBox(12000) . ' kg'; ?> <br>
                                <?= $seaPlane->cruise(); ?> <br>
6
                                    $seaPlane->takeOff(); ?> <br>
                                <?= $seaPlane->fly(); ?> <br>
<?= $seaPlane->land(); ?> <br>

                                        echo "Jadi, Butuh Bahan Bakar sebanyak " . $seaPlane->calcFuelNeeds() . ' Liter'. '<br>';
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```
<?= $seaPlane->takeOff(); ?> <br>
                        <?= $seaPlane->fly(); ?> <br>
<?= $seaPlane->land(); ?> <br>

                               echo "Jadi, Butuh Bahan Bakar sebanyak " . $seaPlane->calcFuelNeeds() . ' Liter'. '<br>';
                        <?= $helicopter->fly(); ?> <br>
<?= $helicopter->land(); ?> <br/>

@
                               echo "Jadi, Butuh Bahan Bakar sebanyak " . $helicopter->calcFuelNeeds() . ' Liter'. '<br>';
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                                                                                                       No4.php - Visual Studio Code
                                                                                              fr interface.php C:\...\No2
                                                                                                                   > ~ III ···
require_once '../No4/abstract.php';
require_once '../No4/interface.php';
          1 reference | 0 implementations
class RiverBarge2 extends Vehicle implements Sailer {
              1 reference | 0 overrides | prototype
public function __construct($maxLoad, $name) {
$this->name = $name;
@
              10 references | 0 overrides | prototype public function calcFuelNeeds() {
                 $fuel = $this->calcFuelEfficiency();
$trip = $this->calcTripDistance();
              2 references | 0 overrides
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```

```
1 reference | 0 implementations class Airplane2 implements Flyer {
                  public function takeOff() {
    return 'Pesawat lepas landas';
public function land() {
    return 'Pesawat mendarat';
@
                  5 references | O overrides

public function fly() {

   return 'Pesawat dalam perjalanan';
            1 reference | 0 implementations
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ict.php C:\...\No3 *** No4.php X *** interface.php C:\...\No4
              1 reference | 0 implementations
class SeaPlane extends Vehicle implements Sailer {
                  reference | 0 overrides | prototype
public function __construct($maxLoad, $name) {
    $this->maxLoad = $maxLoad;
    $this->name = $name;
                  10 references | 0 overrides | prototype
public function calcFuelNeeds() {
    $fuel = $this->calcFuelEfficiency();
return ceil($fuel /= $trip);
@
                   2 references | 0 overrides
public function dock() {
                       return $this->name . ' berada di dermaga';
                   2 references | 0 overrides
public function cruise() {
    return $this->name . ' sedang berlayar';
                                                                                                                 Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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```
1 reference | 0 overrides
public function takeOff() {
    return $this->name . ' lepas landas';
}
                 1 reference | 0 overrides

public function land() {

   return $this->name . ' mendarat';
return $this->name . ' dalam perjalanan';
@
                  1 reference|0 overrides|prototype
public function __construct($maxLoad, $name) {
    $this->maxLoad = $maxLoad;
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                                                                                                                     No4.php - Visual Studio Code
10 references | 0 overrides | prototype
public function calcFuelNeeds() {
    $fuel = $this->calcFuelEfficiency();
                    return ceil($fuel /= $trip):
                 reference|0 overrides
public function takeOff() {
    return $this->name . ' lepas landas';
                 1 reference | 0 overrides

public function land() {

return $this->name . ' mendarat';
@
                     return $this->name . ' dalam perjalanan';
             $riverBarge2 = new RiverBarge2(30000, 'Atomic');
$seaPlane = new SeaPlane(20000, 'Titanic');
              $helicopter = new Helicopter(10000, 'Brocklyn');
                                                                                                          Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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2 <!-- 21091397076 -->
3 <!-- D4 MANAJEMEN INFORMATIKA -->
                   24 references

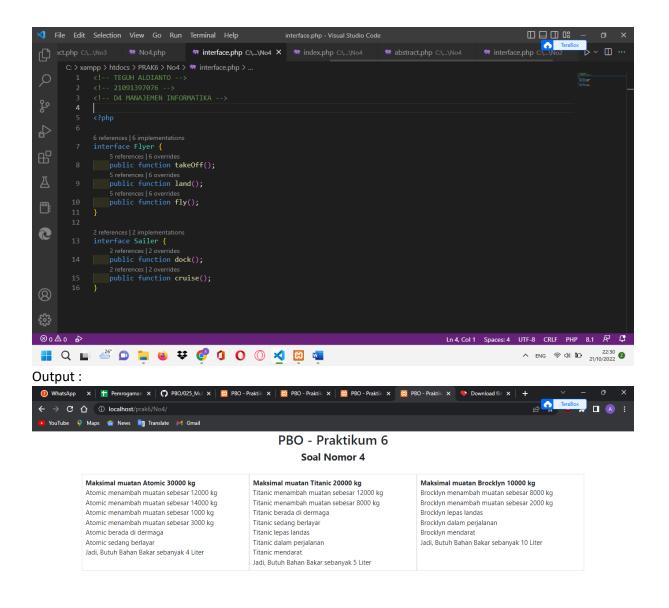
private $load = 0;

protected $maxLoad = 0, $name;
                    0 references | 14 overrides
protected function __construct($maxLoad, $name) {
    $this->$maxLoad = $maxLoad;
    this description
$this->$name = $name;
@
                    0 references | 0 overrides
public function getLoad() {
    return $this->load;
}
                  10 references | 0 overrides

public function getMaxLoad() {

echo 'Maksimal muatan ' . $this->name . ' ';

return $this->maxload:
⊗0 10 €
                                                                                                                             Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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                                                                                                                                                    ^ ENG <a>♠ Φ)</a> <a>Φ0</a> <a>22:29</a> <a>21/10/2022</a> <a>2</a>
                                                                                                                                                     abstract.php - Visual Studio Code
                                             ## interface.php C\_\No4  ## index.php C\_\No4  ## abstract.php C\_\No4  X  ## interface.php C\_\No2
                                                                                                                                                                      > ~ III ···
                     30 references | 0 overrides public function addBox($weight) {
                        if ($this->load >= $this->maxLoad) {
   echo "$this->name menambah muatan sebesar $weight <bry";
   echo 'Muatan telah penuh tidak bisa menambah lagi';</pre>
                              se {
| $this->load += $weight;
| echo "$this->name menambah muatan sebesar $weight";
10 references | 14 overrides abstract public function calcFuelNeeds();
@
                         $range = 50000000;
                          $range /= $this->load;
                          return $range;
                                                                                                                            Ln 4, Col 1 Spaces: 4 UTF-8 CRLF PHP 8.1 🛱 🕻
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```





Implementasi polymhorphism dengan interface dan abstact class detinjukkan pada cals SeaPlane yang implements interface Sailer, turunan dari class Airplane yang implements Flyer dan child dari Vehicle sehingga class SeaPlane memiliki method dock, cruise, takeoff, land, fly,dan calcFuelNeeds.