

LAPORAN PRAKTIKUM 6
PEMROGRAMAN BERORIENTASI OBJEK



OLEH
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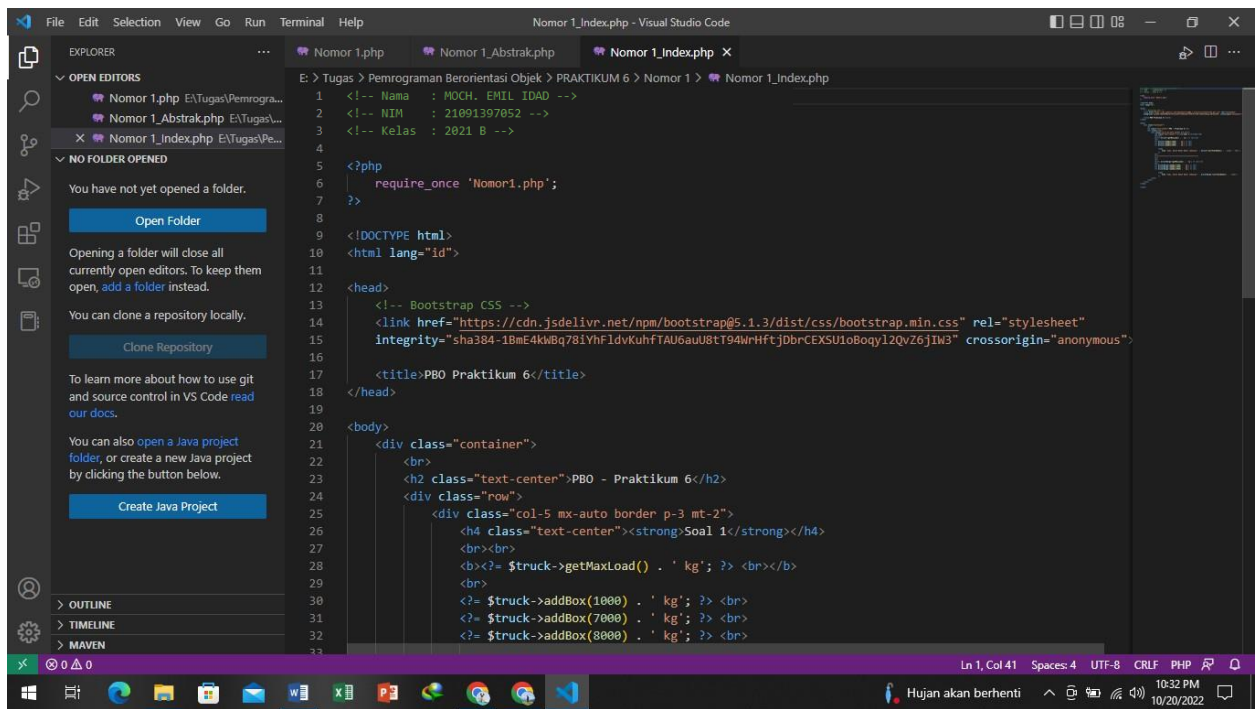
```
1 <!-- Nama : MOCH. EHIL IDAD -->
2 <!-- NIM : 21891397852 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 require_once 'Nomor1_Abstrak.php';
8
9 class Truck extends Vehicle {
10     public function __construct($maxLoad, $name)
11     {
12         $this->maxLoad = $maxLoad;
13         $this->name = $name;
14     }
15
16     public function calcFuelNeeds()
17     {
18         $fuel = $this->calcFuelEfficiency();
19         $strip = $this->calcTripDistance();
20
21         return ceil($fuel / $strip);
22     }
23 }
24
25 class RiverBarge extends Vehicle {
26     public function __construct($maxLoad, $name)
27     {
28         $this->maxLoad = $maxLoad;
29         $this->name = $name;
30     }
31
32     public function calcFuelNeeds()
33     {
```

1.

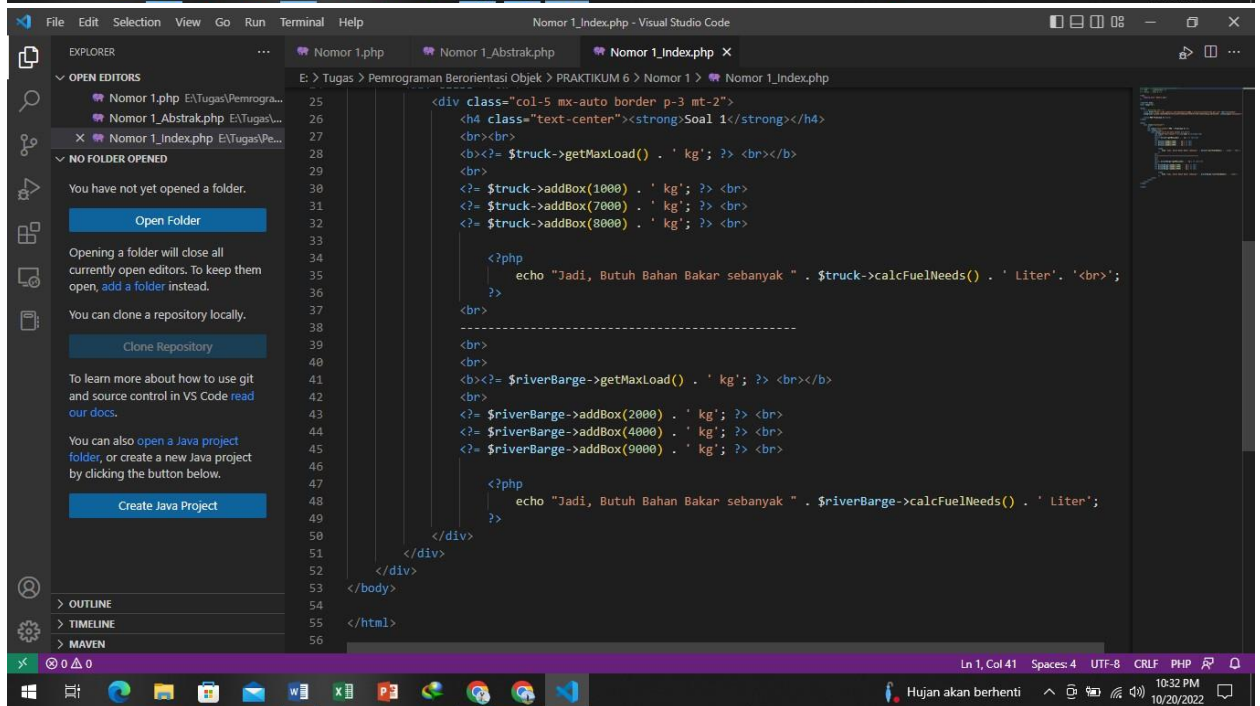
```
12         $this->maxLoad = $maxLoad;
13         $this->name = $name;
14     }
15
16     public function calcFuelNeeds()
17     {
18         $fuel = $this->calcFuelEfficiency();
19         $strip = $this->calcTripDistance();
20
21         return ceil($fuel / $strip);
22     }
23 }
24
25 class RiverBarge extends Vehicle {
26     public function __construct($maxLoad, $name)
27     {
28         $this->maxLoad = $maxLoad;
29         $this->name = $name;
30     }
31
32     public function calcFuelNeeds()
33     {
34         $fuel = $this->calcFuelEfficiency();
35         $strip = $this->calcTripDistance();
36
37         return ceil($fuel / $strip);
38     }
39 }
40 $truck = new Truck(24000, 'Truk');
41 $riverBarge = new RiverBarge(36000, 'Perahu');
```

```
1 <!-- Nama : MOCH. EHIL IDAD -->
2 <!-- NIM : 21891397852 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 abstract class Vehicle {
8     private $load = 0;
9     protected $maxLoad = 0, $name;
10
11     protected function __construct($maxLoad, $name) {
12         $this->$maxLoad = $maxLoad;
13         $this->$name = $name;
14     }
15
16     public function getLoad() {
17         return $this->load;
18     }
19
20     public function getMaxLoad() {
21         echo 'Maksimal muatan ' . $this->name . ' ';
22         return $this->maxLoad;
23     }
24
25     public function addBox($weight) {
26         if ($this->load >= $this->maxLoad) {
27             echo "$this->name menambah muatan sebesar $weight <br>";
28             echo 'Muatan telah penuh tidak bisa menambah lagi!';
29         } else {
30             $this->load += $weight;
31             echo "$this->name menambah muatan sebesar $weight";
32         }
33 }
```

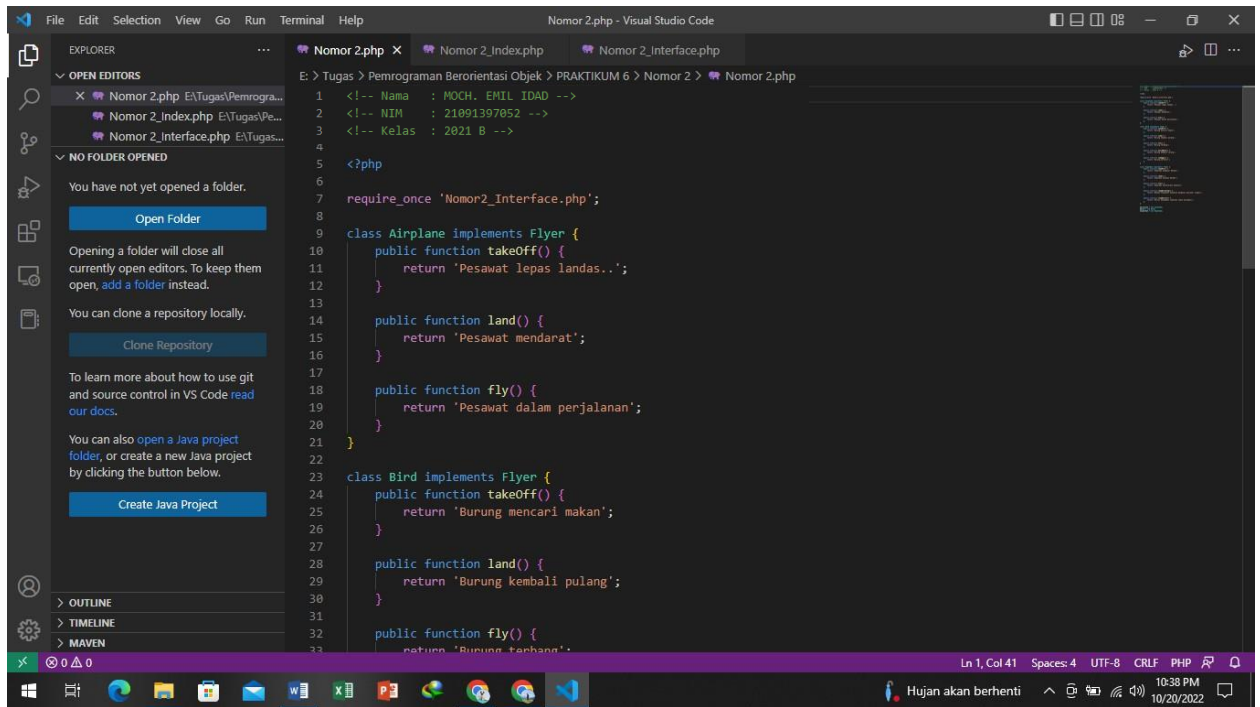
```
17     return $this->load;
18 }
19
20 public function getMaxLoad() {
21     echo 'Maksimal muatan ' . $this->name . ' ';
22     return $this->maxLoad;
23 }
24
25 public function addBox($weight) {
26     if ($this->load >= $this->maxLoad) {
27         echo "$this->name menambah muatan sebesar $weight <br>";
28         echo 'Muatan telah penuh tidak bisa menambah lagi!';
29     } else {
30         $this->load += $weight;
31         echo "$this->name menambah muatan sebesar $weight";
32     }
33 }
34
35 abstract public function calcFuelNeeds();
36
37 protected function calcFuelEfficiency() {
38     $range = 500000000;
39     $range /= $this->load;
40     return $range;
41 }
42
43 protected function calcTripDistance() {
44     return 500;
45 }
46 }
```



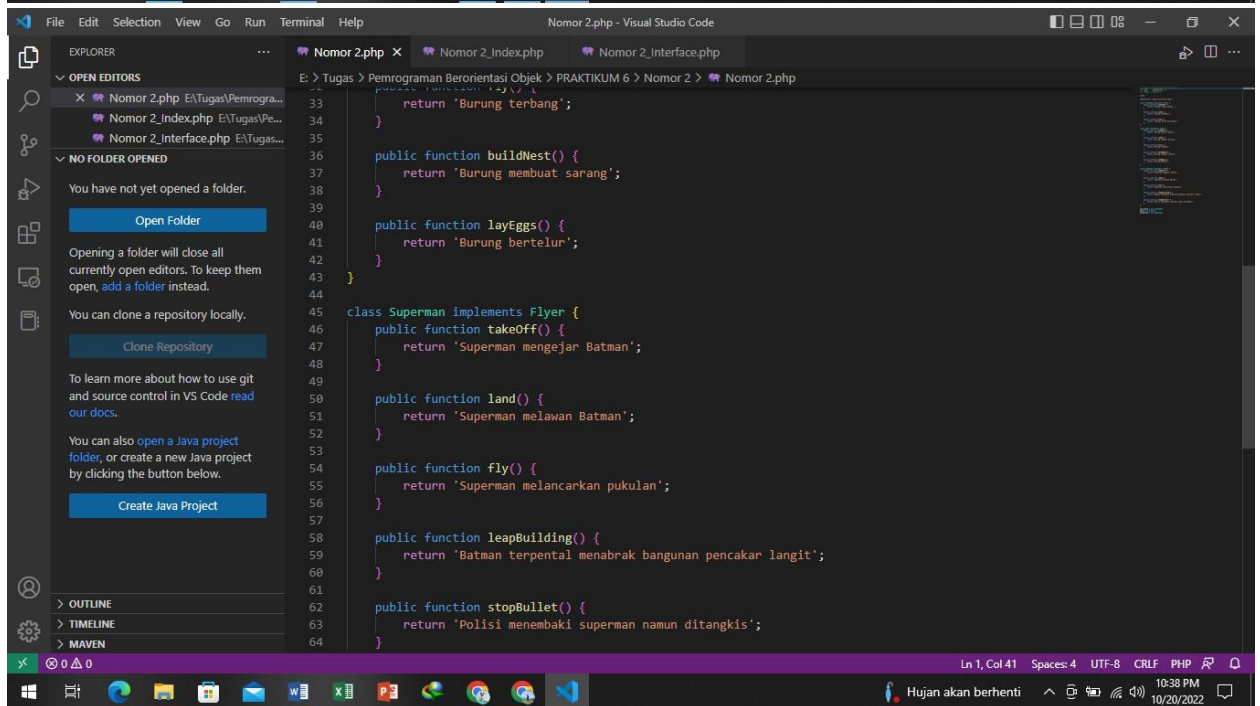
```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6     require_once 'Nomor1.php';
7 ?>
8
9 <!DOCTYPE html>
10 <html lang="id">
11
12 <head>
13     <!-- Bootstrap CSS -->
14     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
15         integrity="sha384-1BmE4kWBq78iYhFtdvKuhfTAU6auU8tT94W4rHfjtDbrCEXSU1oBoqyl2Qv6jIN3" crossorigin="anonymous">
16
17     <title>PBO Praktikum 6</title>
18 </head>
19
20 <body>
21     <div class="container">
22         <br>
23         <h2 class="text-center">PBO - Praktikum 6</h2>
24         <div class="row">
25             <div class="col-5 mx-auto border p-3 mt-2">
26                 <h4 class="text-center"><strong>Soal 1</strong></h4>
27                 <br><br>
28                 <b><?=> $truck->getMaxLoad() . ' kg'; ?> <br></b>
29                 <br>
30                 <b><?=> $truck->addBox(1000) . ' kg'; ?> <br>
31                 <b><?=> $truck->addBox(7000) . ' kg'; ?> <br>
32                 <b><?=> $truck->addBox(8000) . ' kg'; ?> <br>
33             </div>
34         </div>
35     </div>
36 </body>
37 </html>
```



```
25
26 <div class="col-5 mx-auto border p-3 mt-2">
27     <h4 class="text-center"><strong>Soal 1</strong></h4>
28     <br><br>
29     <b><?=> $truck->getMaxLoad() . ' kg'; ?> <br></b>
30     <br>
31     <b><?=> $truck->addBox(1000) . ' kg'; ?> <br>
32     <b><?=> $truck->addBox(7000) . ' kg'; ?> <br>
33     <b><?=> $truck->addBox(8000) . ' kg'; ?> <br>
34
35     <?php
36         echo "Jadi, Butuh Bahan Bakar sebanyak " . $truck->calcFuelNeeds() . ' Liter'. '<br>';
37     ?>
38
39     <br>
40     <br>
41     <b><?=> $riverBarge->getMaxLoad() . ' kg'; ?> <br></b>
42     <br>
43     <b><?=> $riverBarge->addBox(2000) . ' kg'; ?> <br>
44     <b><?=> $riverBarge->addBox(4000) . ' kg'; ?> <br>
45     <b><?=> $riverBarge->addBox(9000) . ' kg'; ?> <br>
46
47     <?php
48         echo "Jadi, Butuh Bahan Bakar sebanyak " . $riverBarge->calcFuelNeeds() . ' Liter';
49     ?>
50
51 </div>
52 </div>
53 </body>
54 </html>
55
56
```

2.



```
File Edit Selection View Go Run Terminal Help
Nomor 2.php - Visual Studio Code
E: > Tugas > Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 2 > Nomor 2.php

38 }
39
40 public function layEggs() {
41     return 'Burung bertelur';
42 }
43
44
45 class Superman implements Flyer {
46     public function takeOff() {
47         return 'Superman mengejar Batman';
48     }
49
50     public function land() {
51         return 'Superman melawan Batman';
52     }
53
54     public function fly() {
55         return 'Superman melancarkan pukulan';
56     }
57
58     public function leapBuilding() {
59         return 'Batman terpentak menabrak bangunan pencakar langit';
60     }
61
62     public function stopBullet() {
63         return 'Polisi menembaki superman namun ditangkis';
64     }
65 }
66
67 $airplane = new Airplane;
68 $bird = new Bird;
69 $superman = new Superman;
```

```
File Edit Selection View Go Run Terminal Help
Nomor 2_Index.php - Visual Studio Code
E: > Tugas > Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 2 > Nomor 2_Index.php

1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6     require_once 'Nomor2.php';
7 ?>
8
9 <!DOCTYPE html>
10 <html lang="en">
11
12 <head>
13     <!-- Bootstrap CSS -->
14     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
15         integrity="sha384-18mE4KBq781YhF1dvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl1QvZ6jIW3" crossorigin="anonymous">
16
17     <title>PBO Praktikum 6</title>
18 </head>
19
20 <body>
21     <div class="container">
22         <br>
23         <h2 class="text-center">PBO - Praktikum 6</h2>
24         <div class="row">
25             <div class="col-5 mx-auto border p-3 mt-2">
26                 <h4 class="text-center"><strong><u>Soal 2</u></strong></h4>
27                 <br><br>
28                 <b><?php
29                     echo "Superman";
30                 ?></b> <br>
31                 <?= $superman->land(); ?> <br>
32                 <?= $superman->takeOff(); ?> <br>
33                 <?= $superman->fly(); ?> <br>
```

This screenshot shows the Visual Studio Code editor with the file `Nomor_2_Index.php` open. The Explorer sidebar on the left shows the project structure with files `Nomor_2.php`, `Nomor_2_Index.php`, and `Nomor_2_Interface.php`. The main editor area displays the following PHP code:

```
27 <div><br>
28 <b><?php
29
30     echo "Superman";
31     ?></b> <br>
32     <?= $superman->land(); ?> <br>
33     <?= $superman->takeOff(); ?> <br>
34     <?= $superman->fly(); ?> <br>
35     <?= $superman->leapBuilding(); ?> <br>
36     <?= $superman->stopBullet(); ?> <br>
37 </div>
38 <b><?php
39
40     echo "Bird";
41     ?></b> <br>
42     <?= $bird->buildNest(); ?> <br>
43     <?= $bird->takeOff(); ?> <br>
44     <?= $bird->fly(); ?> <br>
45     <?= $bird->land(); ?> <br>
46     <?= $bird->layEggs(); ?> <br>
47 </div>
48 <b><?php
49
50     echo "Airplane";
51     ?></b> <br>
52     <?= $airplane->takeOff(); ?> <br>
53     <?= $airplane->fly(); ?> <br>
54     <?= $airplane->land(); ?> <br>
55 </div>
56 </body>
57 </html>
```

The status bar at the bottom indicates the cursor is at line 20, column 7, with 4 spaces, UTF-8 encoding, CRLF line endings, and the PHP language mode.

This screenshot shows the Visual Studio Code editor with the file `Nomor_2_Interface.php` open. The Explorer sidebar on the left shows the project structure with files `Nomor_2.php`, `Nomor_2_Index.php`, and `Nomor_2_Interface.php`. The main editor area displays the following PHP code:

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 interface Flyer {
8     public function takeOff();
9     public function land();
10    public function fly();
11 }
12
13 interface Sailer {
14     public function dock();
15     public function cruise();
16 }
```

The status bar at the bottom indicates the cursor is at line 1, column 41, with 4 spaces, UTF-8 encoding, CRLF line endings, and the PHP language mode.

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 require_once 'Nomor 3_Abstak.php';
8 require_once 'Nomor 3_Interface.php';
9
10 class Animal
11 {
12     protected $name;
13
14     public function __construct($name)
15     {
16         $this->name = $name;
17     }
18
19     public function eat()
20     {
21         return $this->name . ' sedang makan';
22     }
23 }
24
25 class Homosapiens extends Animal {}
26
27 class Airplane2 extends Vehicle implements Flyer
28 {
29     public function __construct($maxLoad, $name)
30     {
31         $this->maxLoad = $maxLoad;
32         $this->name = $name;
33 }
```

3.

```
33 }
34
35 public function takeOff()
36 {
37     return $this->name lepas landas";
38 }
39
40 public function land()
41 {
42     return $this->name mendarat";
43 }
44
45 public function fly()
46 {
47     return $this->name dalam perjalanan";
48 }
49
50 public function calcFuelNeeds()
51 {
52     $fuel = $this->calcFuelEfficiency();
53     $trip = $this->calcTripDistance();
54
55     return ceil($fuel / $trip);
56 }
57
58 }
59
60 class Superman2 extends Homosapiens implements Flyer
61 {
62     public function takeOff()
63     {
64 }
```


This screenshot shows the Visual Studio Code interface with the file explorer on the left displaying 'Nomor 3.php' and 'Nomor 3_Abstrak.php'. The main editor window is open to 'Nomor 3.php', which contains the implementation of the 'Animal' class. The code defines three methods: 'takeOff()', 'land()', and 'fly()', each returning a string describing the action. It also includes a 'leapBuilding()' method that returns a string about Batman. At the bottom, there are three object instantiations: '\$burung = new Animal('Burung');', '\$manusia = new Homosapiens('Aransha');', and '\$superman2 = new Superman2('Superman');'. The status bar at the bottom indicates 'Ln 8, Col 21' and 'Spaces: 4'.

```
62 {
63     public function takeOff()
64     {
65         return "$this->name mengejar Batman";
66     }
67
68     public function land()
69     {
70         return "$this->name melawan Batman";
71     }
72
73     public function fly()
74     {
75         return "$this->name melancarkan pukulan";
76     }
77
78     public function leapBuilding()
79     {
80         return "Batman terpenjal menabrak bangunan pencakar langit";
81     }
82
83     public function stopBullet()
84     {
85         return "Polisi menembaki $this->name namun ditangkis";
86     }
87 }
88
89 $burung = new Animal('Burung');
90 $manusia = new Homosapiens('Aransha');
91 $airplane2 = new Airplane2(25000, 'Batik Air');
92 $superman2 = new Superman2('Superman');
```

This screenshot shows the Visual Studio Code interface with the file explorer on the left displaying 'Nomor 3.php', 'Nomor 3_Abstrak.php', 'Nomor 3_Index.php', and 'Nomor 3_Interface.php'. The main editor window is open to 'Nomor 3_Abstrak.php', which contains the implementation of the 'Vehicle' abstract class. The code defines a private property '\$load', a protected property '\$maxLoad', and a protected method '__construct()'. It also includes three public methods: 'getLoad()', 'getMaxLoad()', and 'addBox(\$weight)'. The 'addBox()' method checks if the current load is greater than or equal to the maximum load and returns an appropriate message. The status bar at the bottom indicates 'Ln 8, Col 23' and 'Spaces: 4'.

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 abstract class Vehicle
8 {
9     private $load = 0;
10    protected $maxLoad = 0, $name;
11
12    protected function __construct($maxLoad, $name) {
13        $this->$maxLoad = $maxLoad;
14        $this->$name = $name;
15    }
16
17    public function getLoad() {
18        return $this->load;
19    }
20
21    public function getMaxLoad() {
22        echo "Maksimal muatan ' . $this->name . ' ";
23        return $this->maxLoad;
24    }
25
26    public function addBox($weight) {
27        if ($this->load >= $this->maxLoad) {
28            echo "$this->name menambah muatan sebesar $weight <br>";
29            echo "Muatan telah penuh tidak bisa menambah lagi";
30        } else {
31            $this->load += $weight;
32            echo "$this->name menambah muatan sebesar $weight";
33        }
34    }
35 }
```

```
17     return $this->load;
18 }
19
20 public function getMaxLoad() {
21     echo 'Maksimal muatan ' . $this->name . ' ';
22     return $this->maxLoad;
23 }
24
25
26 public function addBox($weight) {
27     if ($this->load >= $this->maxLoad) {
28         echo "$this->name menambah muatan sebesar $weight <br>";
29         echo 'Muatan telah penuh tidak bisa menambah lagi!';
30     } else {
31         $this->load += $weight;
32         echo "$this->name menambah muatan sebesar $weight";
33     }
34 }
35
36 abstract public function calcFuelNeeds();
37
38 protected function calcFuelEfficiency() {
39     $range = 50000000;
40     $range /= $this->load;
41     return $range;
42 }
43
44 protected function calcTripDistance() {
45     return 500;
46 }
```

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6     require_once 'Nomor3.php';
7 ?>
8
9 <!DOCTYPE html>
10 <html lang="id">
11
12 <head>
13     <!-- Bootstrap CSS -->
14     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
15         integrity="sha384-18mE4kWBq781YhF1dvKhufTAU6auU8tT94W/HftjDbrCEXSU1oBoqy12Qv26jIW3" crossorigin="anonymous">
16
17     <title> PBO Praktikum 6</title>
18 </head>
19 <body>
20     <h2 class="text-center">PBO - Praktikum 6</h2>
21     <div class="container">
22         <div class="row">
23             <div class="col-5 mx-auto border p-3 mt-2">
24                 <h4 class="text-center"><strong><u>Soal 3</u></strong></h4>
25                 <br><br>
26                 <?= $burung->eat(); ?> <br>
27                 <?= $manusia->eat(); ?> <br>
28                 <br>
29                 <br><?= $airplane2->getMaxLoad() . ' kg'; ?> <br></div>
30                 <?= $airplane2->addBox(6000) . ' kg'; ?> <br>
31                 <?= $airplane2->addBox(2000) . ' kg'; ?> <br>
32                 <?= $airplane2->addBox(7000) . ' kg'; ?> <br>
33             </div>
34         </div>
35     </div>
36 </body>
37 </html>
```

This screenshot shows the Visual Studio Code editor with the file 'Nomor 3_Index.php' open. The Explorer sidebar on the left shows a project structure with files 'Nomor 3.php', 'Nomor 3_Abstrak.php', 'Nomor 3_Index.php', and 'Nomor 3_Interface.php'. The main editor area displays PHP code for an HTML page. The code includes HTML tags for a form and PHP code that uses objects like \$airplane2 and \$superman2 to calculate fuel needs and perform actions like eat, land, and fly. The status bar at the bottom indicates the cursor is at line 1, column 41, with 4 spaces, UTF-8 encoding, and CRLF line endings.

```
25 <br><br>
26 <?= $burung->eat(); ?> <br>
27 <?= $manusia->eat(); ?> <br>
28 <br>
29
30 <b><?= $airplane2->getMaxLoad() . ' kg'; ?> <br></b>
31 <?= $airplane2->addBox(6000) . ' kg'; ?> <br>
32 <?= $airplane2->addBox(2000) . ' kg'; ?> <br>
33 <?= $airplane2->addBox(7000) . ' kg'; ?> <br>
34 <?= $airplane2->addBox(5000) . ' kg'; ?> <br>
35 <?= $airplane2->takeOff(); ?> <br>
36 <?= $airplane2->fly(); ?> <br>
37 <?= $airplane2->land(); ?> <br>
38
39 <?php
40     echo "Jadi, Butuh Bahan Bakar sebanyak " . $airplane2->calcFuelNeeds() . ' Liter'. <br>
41     ?>
42 <br>
43 <?= $superman2->eat(); ?> <br>
44 <?= $superman2->land(); ?> <br>
45 <?= $superman2->takeOff(); ?> <br>
46 <?= $superman2->fly(); ?> <br>
47 <?= $superman2->leapBuilding(); ?> <br>
48 <?= $superman2->stopBullet(); ?> <br>
49 </div>
50 </div>
51 </body>
52 </html>
53
54 </html>
```

This screenshot shows the Visual Studio Code editor with the file 'Nomor 3_Interface.php' open. The Explorer sidebar on the left shows the same project structure as the previous screenshot. The main editor area displays PHP code defining two interfaces: 'Flyer' and 'Sailer'. The 'Flyer' interface has methods 'takeOff()', 'land()', and 'fly()'. The 'Sailer' interface has methods 'dock()' and 'cruise()'. The status bar at the bottom indicates the cursor is at line 1, column 41, with 4 spaces, UTF-8 encoding, and CRLF line endings.

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 interface Flyer {
8     public function takeOff();
9     public function land();
10    public function fly();
11 }
12
13 interface Sailer {
14     public function dock();
15     public function cruise();
16 }
```

The screenshot shows the Visual Studio Code interface with the file explorer on the left and the editor window in the center. The editor window displays the code for `Nomor 4.php`. The code includes a header with comments for name, NIM, and class, followed by PHP tags and require statements for `Nomor 4_Abstrak.php` and `Nomor 4_Interface.php`. The `RiverBarge2` class extends `Vehicle` and implements `Sailer`. It has a constructor, a `calcFuelNeeds` method, and `dock` and `cruise` methods. The `Airplane2` class implements `Flyer` and has a `takeOff` method.

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 require_once 'Nomor 4_Abstrak.php';
8 require_once 'Nomor 4_Interface.php';
9
10 class RiverBarge2 extends Vehicle implements Sailer {
11     public function __construct($maxLoad, $name) {
12         $this->maxLoad = $maxLoad;
13         $this->name = $name;
14     }
15
16     public function calcFuelNeeds() {
17         $fuel = $this->calcFuelEfficiency();
18         $trip = $this->calcTripDistance();
19
20         return ceil($fuel / $trip);
21     }
22
23     public function dock() {
24         return $this->name . ' berada di dermaga';
25     }
26
27     public function cruise() {
28         return $this->name . ' sedang berlayar';
29     }
30 }
31
32 class Airplane2 implements Flyer {
33     public function takeOff() {
```

4.

The screenshot shows the Visual Studio Code interface with the file explorer on the left and the editor window in the center. The editor window displays the code for `Nomor 4.php`. The code includes a header with comments for name, NIM, and class, followed by PHP tags and require statements for `Nomor 4_Abstrak.php` and `Nomor 4_Interface.php`. The `SeaPlane` class extends `Vehicle` and implements `Sailer`. It has a constructor, a `calcFuelNeeds` method, and `dock` and `cruise` methods. The `Airplane2` class implements `Flyer` and has a `takeOff` method.

```
33     public function takeOff() {
34         return 'Pesawat lepas landas';
35     }
36     public function land() {
37         return 'Pesawat mendarat';
38     }
39     public function fly() {
40         return 'Pesawat dalam perjalanan';
41     }
42 }
43
44 class SeaPlane extends Vehicle implements Sailer {
45     public function __construct($maxLoad, $name) {
46         $this->maxLoad = $maxLoad;
47         $this->name = $name;
48     }
49
50     public function calcFuelNeeds() {
51         $fuel = $this->calcFuelEfficiency();
52         $trip = $this->calcTripDistance();
53
54         return ceil($fuel / $trip);
55     }
56
57     public function dock() {
58         return $this->name . ' berada di dermaga';
59     }
60
61     public function cruise() {
62         return $this->name . ' sedang berlayar';
63     }
64 }
```



```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 abstract class Vehicle {
8     private $load = 0;
9     protected $maxLoad = 0, $name;
10
11     protected function __construct($maxLoad, $name) {
12         $this->$maxLoad = $maxLoad;
13         $this->$name = $name;
14     }
15
16     public function getLoad() {
17         return $this->load;
18     }
19
20     public function getMaxLoad() {
21         echo 'Maksimal muatan ' . $this->name . ' ' ;
22         return $this->maxLoad;
23     }
24
25     public function addBox($weight) {
26         if ($this->load >= $this->maxLoad) {
27             echo "this->name menambah muatan sebesar $weight <br>";
28             echo 'Muatan telah penuh tidak bisa menambah lagi';
29         }else {
30             $this->load += $weight;
31             echo "this->name menambah muatan sebesar $weight";
32         }
33     }
34 }
```

```
14 }
15
16 public function getLoad() {
17     return $this->load;
18 }
19
20 public function getMaxLoad() {
21     echo 'Maksimal muatan ' . $this->name . ' ' ;
22     return $this->maxLoad;
23 }
24
25 public function addBox($weight) {
26     if ($this->load >= $this->maxLoad) {
27         echo "this->name menambah muatan sebesar $weight <br>";
28         echo 'Muatan telah penuh tidak bisa menambah lagi';
29     }else {
30         $this->load += $weight;
31         echo "this->name menambah muatan sebesar $weight";
32     }
33 }
34
35 abstract public function calcFuelNeeds();
36
37 protected function calcFuelEfficiency() {
38     $range = 500000000;
39     $range /= $this->load;
40     return $range;
41 }
42
43 protected function calcTripDistance() {
44     return 500;
45 }
46 }
```

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 interface Flyer {
8     public function takeOff();
9     public function land();
10    public function fly();
11 }
12
13 interface Sailer {
14     public function dock();
15     public function cruise();
16 }
```

```
1 <!-- Nama : MOCH. EMIL IDAD -->
2 <!-- NIM : 21091397052 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6     require_once 'Nomor 4.php';
7 ?>
8
9 <!DOCTYPE html>
10 <html lang="en">
11
12 <head>
13     <!-- Bootstrap CSS -->
14     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
15         integrity="sha384-18mE4kq781YhF1dvKuhfTAU6auU8tT94W/HftjDbrCEXSU1oBoqy12QvZ6jIW3" crossorigin="anonymous">
16
17     <title>PBO Praktikum 6</title>
18 </head>
19 <body>
20     <h2 class="text-center">PBO - Praktikum 6</h2>
21     <div class="container">
22         <div class="row">
23             <h4 class="text-center"><strong>Soal 4</strong></h4>
24             <br><br>
25             <div class="col-4 mx-auto border p-2 mt-2">
26                 <b><?= $riverBarge2->getMaxLoad() . ' kg'; ?> <br></b>
27                 <?= $riverBarge2->addBox(12000) . ' kg'; ?> <br>
28                 <?= $riverBarge2->addBox(14000) . ' kg'; ?> <br>
29                 <?= $riverBarge2->addBox(1800) . ' kg'; ?> <br>
30                 <?= $riverBarge2->addBox(3800) . ' kg'; ?> <br>
31                 <?= $riverBarge2->dock(); ?> <br>
32                 <?= $riverBarge2->cruise(); ?> <br>
33             </div>
24 </div>
```

Open Folder