

LAPORAN PRAKTIKUM 6
PEMROGRAMAN BERORIENTASI OBJEK



OLEH
ACHMAD NURS SYURURI ARIFIN
21091397024
D4 MANAJEMEN INFORMATIKA

```
1 <!-- Nama : Achmad Nurs Syunuri Arifin -->
2 <!-- NIM : 21091397024 -->
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     {
```

Ln 16, Col 19 Spaces: 4 UTF-8 CRLF PHP

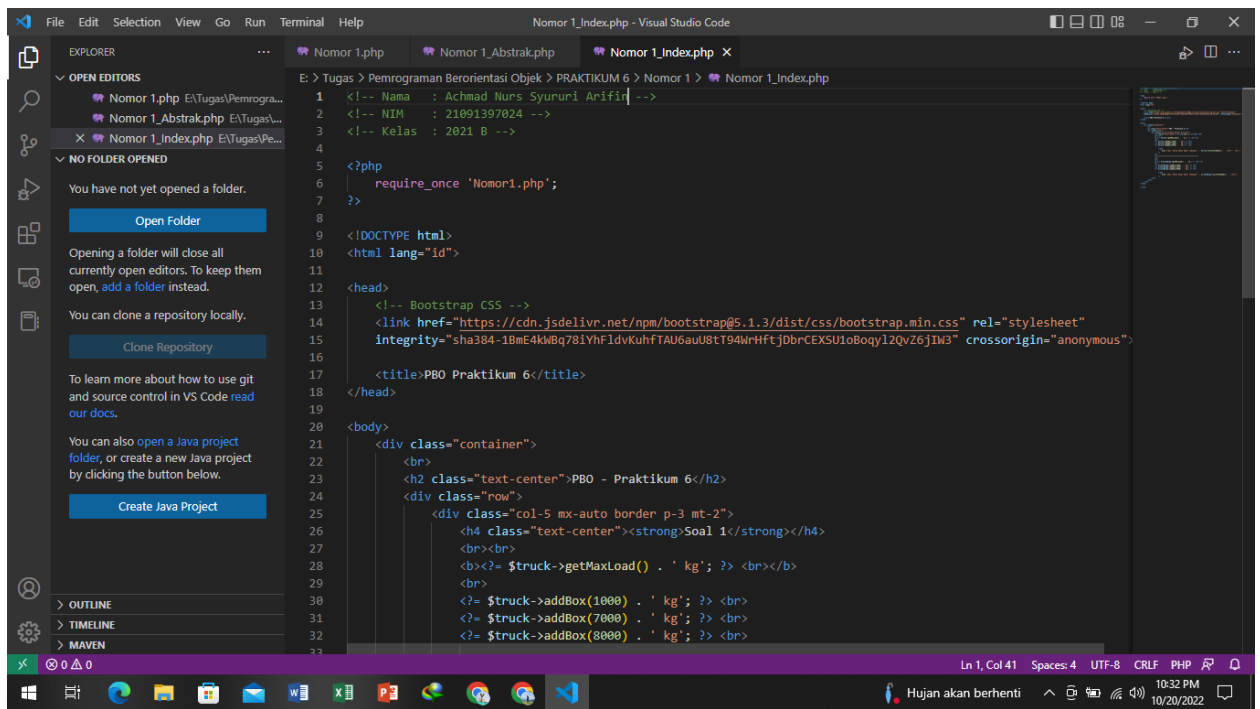
1.

```
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');
```

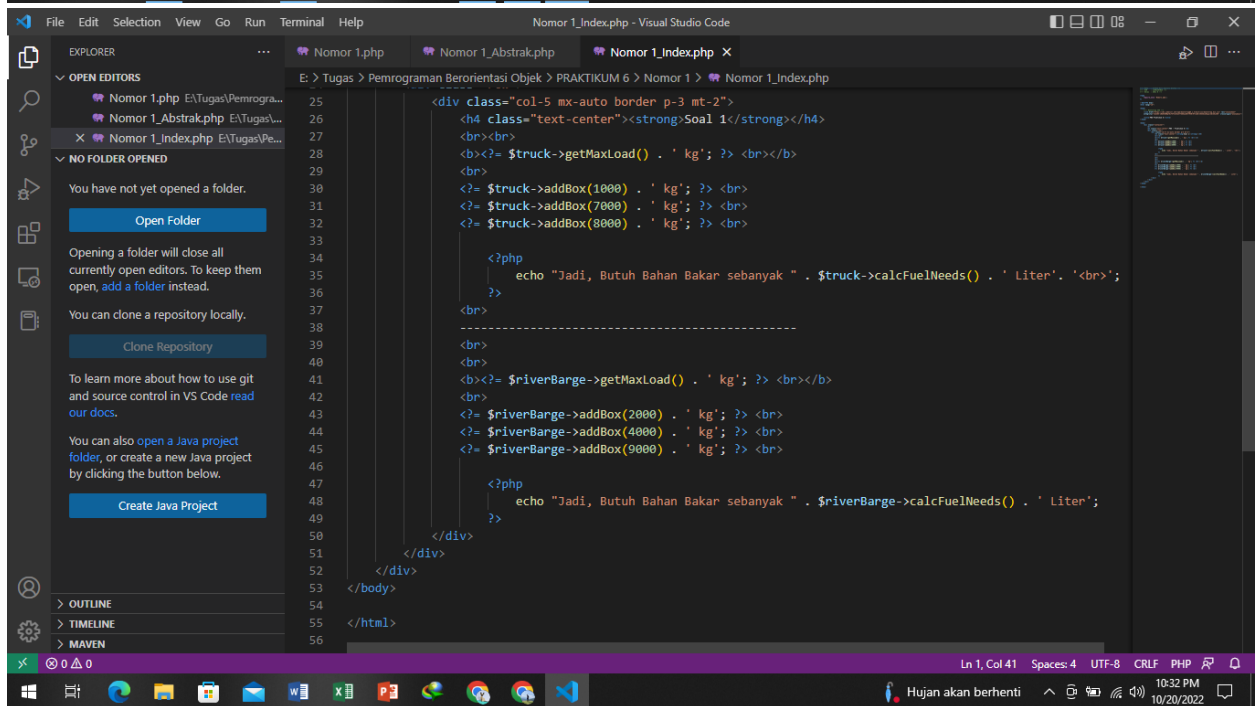
Ln 16, Col 19 Spaces: 4 UTF-8 CRLF PHP

```
1 <!-- Nama : Achmad Nurs Syunuri Arifin -->
2 <!-- NIM : 21091397024 -->
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 }
```

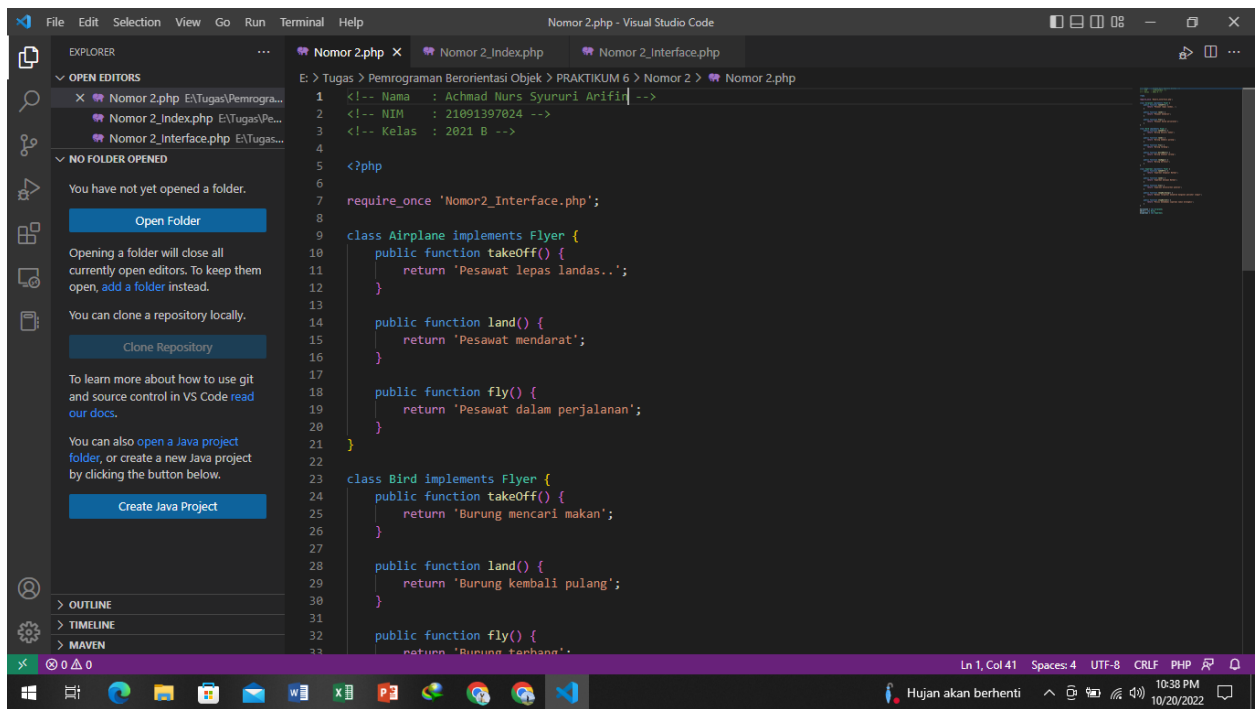
```
17     return $this->load;
18 }
19
20 public function getMaxLoad() {
21     echo 'Maksimal muatan ' . $this->name . ' ';
22     return $this->maxLoad;
23 }
24
25 public function addBox($weight) {
26     if ($this->load >= $this->maxLoad) {
27         echo "this->name menambah muatan sebesar $weight <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 : Achmad Nurs Syunuri Arifin -->
2 <!-- NIM : 21091397024 -->
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="sha384-18m4KkBq78iVhFdvKuhfTAU6auU8tT94WrfhjtJDbCEXSU10Boqy12QvZ6jIW3" 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>
```

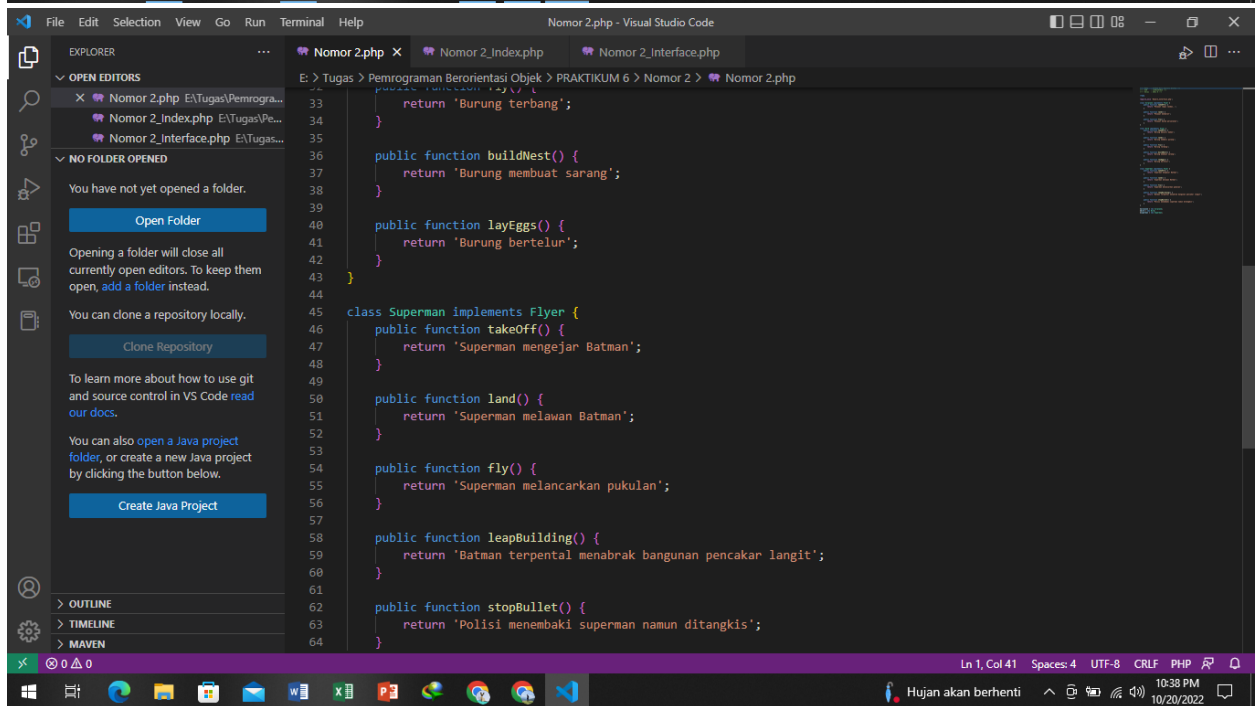


```
25 <div class="col-5 mx-auto border p-3 mt-2">
26     <h4 class="text-center"><strong>Soal 1</strong></h4>
27     <br><br>
28     <b><?=> $truck->getMaxLoad() . ' kg'; ?> <br></b>
29     <br>
30     <b><?=> $truck->addBox(1000) . ' kg'; ?> <br>
31     <b><?=> $truck->addBox(7000) . ' kg'; ?> <br>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



```
1 <!-- Nama : Achmad Nurs Syunuri Arifin -->
2 <!-- NIM : 21091397024 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 require_once 'Nomor2_Interface.php';
8
9 class Airplane implements Flyer {
10     public function takeOff() {
11         return 'Pesawat lepas landas..';
12     }
13
14     public function land() {
15         return 'Pesawat mendarat';
16     }
17
18     public function fly() {
19         return 'Pesawat dalam perjalanan';
20     }
21 }
22
23 class Bird implements Flyer {
24     public function takeOff() {
25         return 'Burung mencari makan';
26     }
27
28     public function land() {
29         return 'Burung kembali pulang';
30     }
31
32     public function fly() {
33         return 'Burung terbang';
```

2.



```
33         return 'Burung terbang';
34     }
35
36     public function buildNest() {
37         return 'Burung membuat sarang';
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 terpental menabrak bangunan pencakar langit';
60     }
61
62     public function stopBullet() {
63         return 'Polisi menembaki superman namun ditangkis';
64     }
65 }
```

```
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 terpenjalar 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;
```

```
1 <!-- Nama : Achmad Nurs Syururi Arifin -->
2 <!-- NIM : 21091397024 -->
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="sha384-18m4k88q781YhF1dvKuhfTAU6auU8tT94W/HftjDbrCEXSU1oBoqyl2QvZ6jIW3" 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>
```

```
27 </div>
28 <br><br>
29 <b><?php
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 <b><?php
38     echo "Bird";
39     ?></b> <br>
40     <?= $bird->buildNest(); ?> <br>
41     <?= $bird->takeOff(); ?> <br>
42     <?= $bird->fly(); ?> <br>
43     <?= $bird->land(); ?> <br>
44     <?= $bird->layEggs(); ?> <br>
45 <b><?php
46     echo "Airplane";
47     ?></b> <br>
48     <?= $airplane->takeOff(); ?> <br>
49     <?= $airplane->fly(); ?> <br>
50     <?= $airplane->land(); ?> <br>
51 </div>
52 </div>
53 </body>
54 </html>
```

```
1 <!-- Nama : Achmad Nurs Syururi Arifin -->
2 <!-- NIM : 21091397024 -->
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 : Achmad Nurs Syunuri Arifin -->
2 <!-- NIM : 21091397024 -->
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.

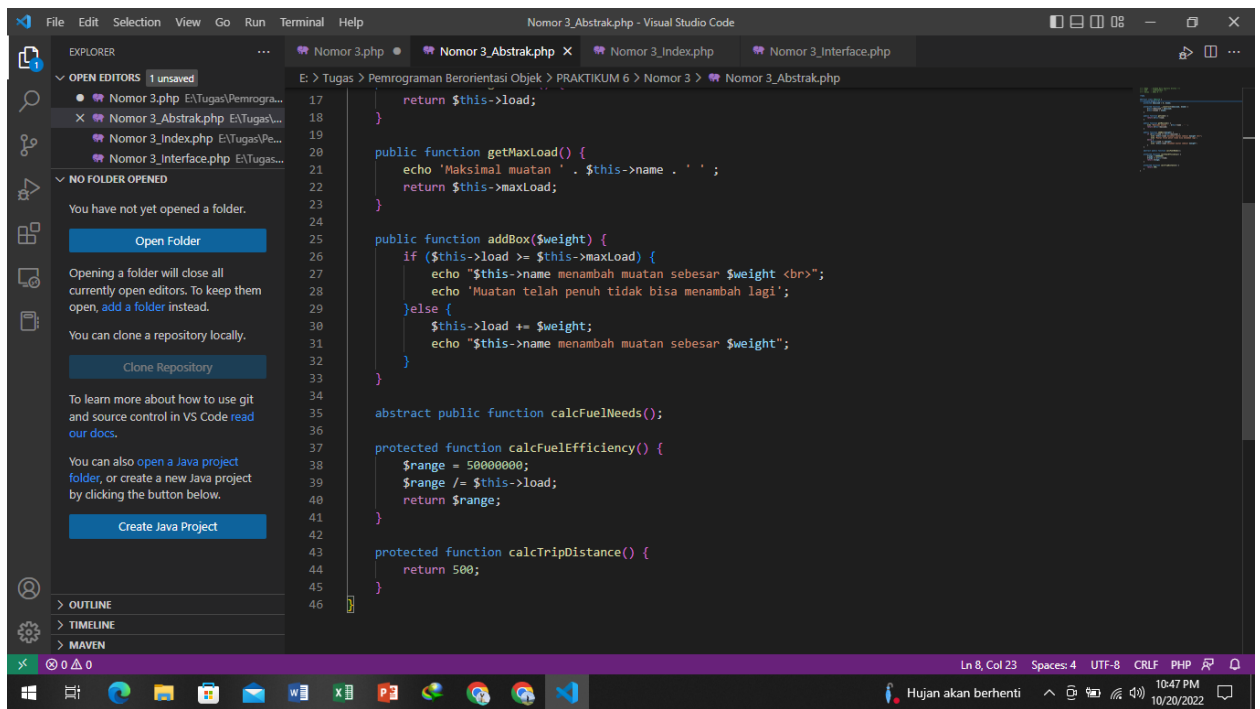
```
33 }
34
35 public function takeOff()
36 {
37     return $this->name lepas landas";
38 }
39
40 public function land()
41 {
42     return $this->name mendarat";
43 }
44
45 public function fly()
46 {
47     return $this->name dalam perjalanan";
48 }
49
50 public function calcFuelNeeds()
51 {
52     $fuel = $this->calcFuelEfficiency();
53     $strip = $this->calcTripDistance();
54
55     return ceil($fuel / $strip);
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 'Nomor 3.php' open. The Explorer sidebar on the left shows the project structure with 'Nomor 3.php' and 'Nomor 3_Abstrak.php'. The main editor displays the code for 'Nomor 3.php', which implements the 'Animal' class by inheriting from 'Animal' (abstract class). The code includes methods: 'takeOff()', 'land()', 'fly()', 'leapBuilding()', and 'stopBullet()'. At the bottom, there are object instantiations: '\$burung = new Animal('Burung');', '\$manusia = new Homosapiens('Aransha');', '\$airplane2 = new Airplane2(25000, 'Batik Air');', and '\$superman2 = new Superman2('Superman');'. The status bar at the bottom indicates 'Ln 8, Col 21' and 'Spaces: 4'.

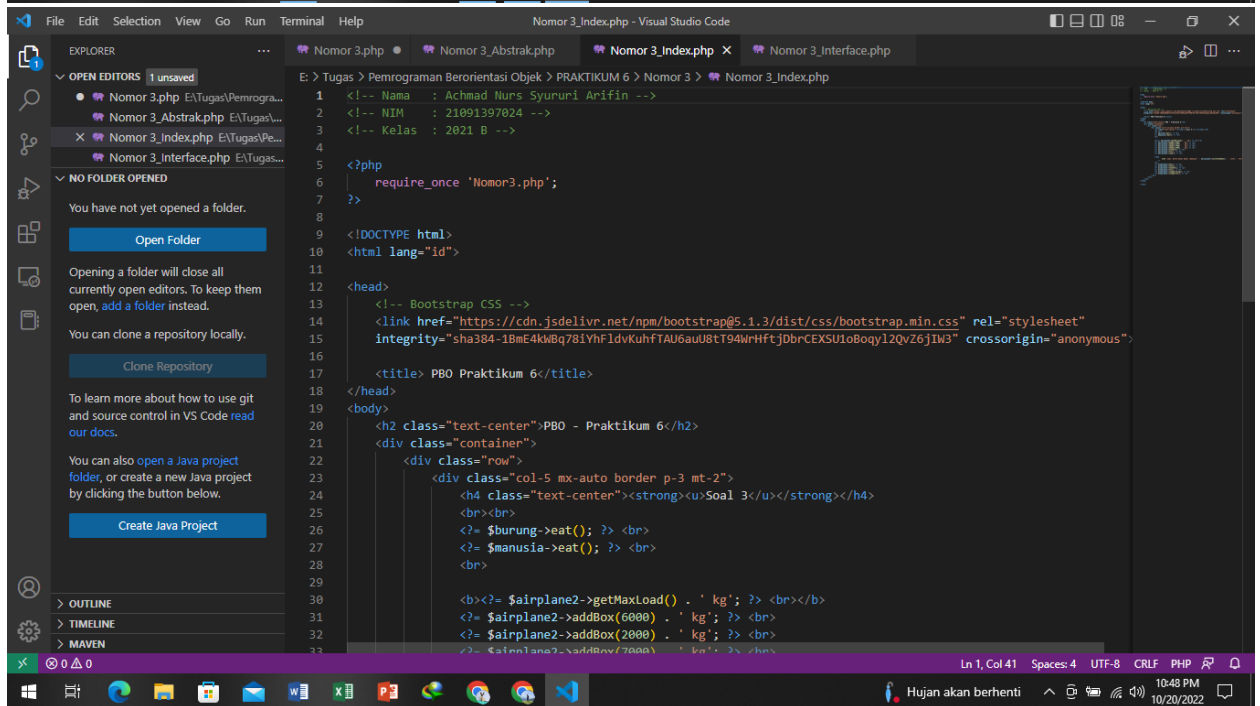
```
62 {
63     public function takeOff()
64     {
65         return $this->name mencejaan Batman";
66     }
67
68     public function land()
69     {
70         return $this->name melawan Batman";
71     }
72
73     public function fly()
74     {
75         return $this->name melancarkan pukulan";
76     }
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 'Nomor 3_Abstrak.php' open. The Explorer sidebar on the left shows the project structure with 'Nomor 3.php', 'Nomor 3_Abstrak.php', 'Nomor 3_Index.php', and 'Nomor 3_Interface.php'. The main editor displays the code for 'Nomor 3_Abstrak.php', which implements the 'Vehicle' abstract class. The code includes the 'abstract class Vehicle' definition with properties '\$load' and '\$maxLoad', and methods: '__construct()', 'getload()', 'getMaxLoad()', and 'addBox()'. The status bar at the bottom indicates 'Ln 8, Col 23' and 'Spaces: 4'.

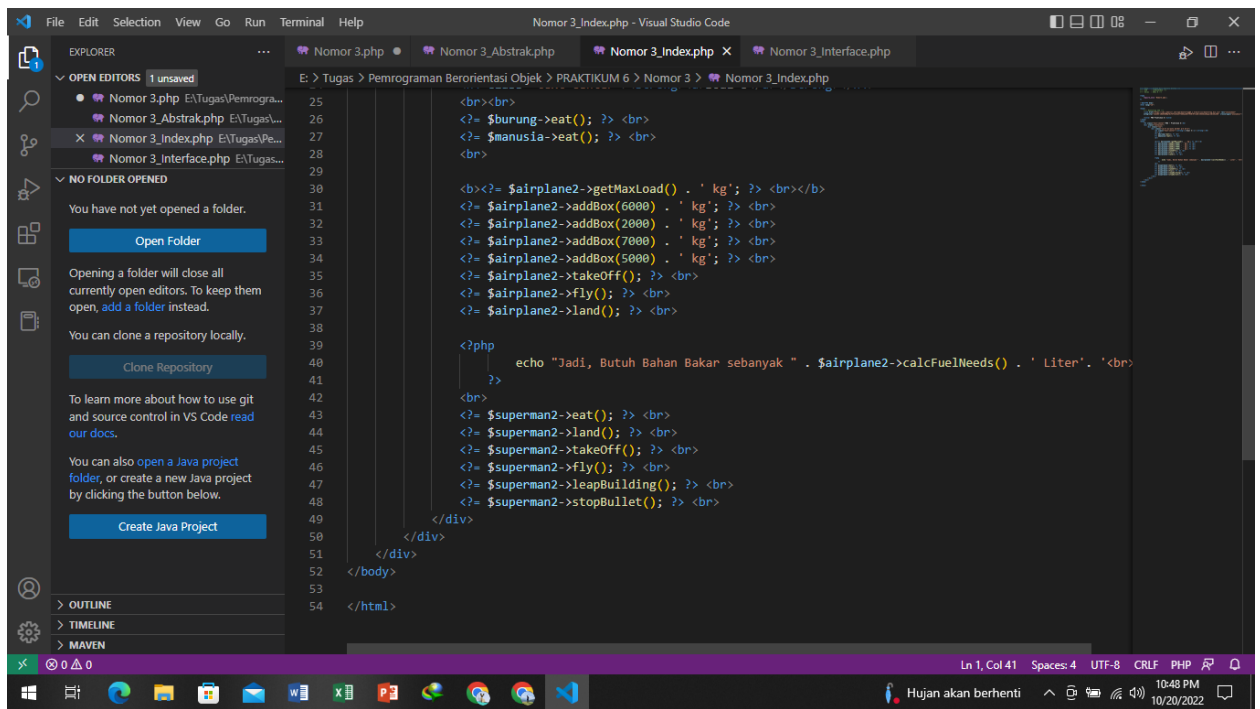
```
1 <!-- Nama : Achmad Nurs Syururi Arifin -->
2 <!-- NIM : 21091397024 -->
3 <!-- Kelas : 2021 B -->
4
5 <?php
6
7 abstract class Vehicle {
8     private $load = 0;
9     protected $maxLoad = 0, $name;
10
11     protected function __construct($maxLoad, $name) {
12         $this->$maxLoad = $maxLoad;
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 }
```



```
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 = 50000000;
39     $range /= $this->load;
40     return $range;
41 }
42
43 protected function calcTripDistance() {
44     return 500;
45 }
46 }
```



```
1 <!-- Nama : Achmad Nurs Syururi Arifin -->
2 <!-- NIM : 21091397024 -->
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="sha384-18mE4k8Bg781YhF1dvKuhfTAU6auU8tT94NrHftjDbrCEXSU1oBoqy12Qv26jIW3" crossorigin="anonymous">
16
17 <title> P80 Praktikum 6</title>
18 </head>
19 <body>
20 <h2 class="text-center">P80 - 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             <b><?= $airplane2->getMaxLoad() . ' kg'; ?> <br></b>
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>
```



File Edit Selection View Go Run Terminal Help

Nomor 3_Index.php - Visual Studio Code

EXPLORER

OPEN EDITORS 1 unsaved

- Nomor 3.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Index.php
- Nomor 3_Abstrak.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Abstrak.php
- Nomor 3_Index.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Index.php
- Nomor 3_Interface.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Interface.php

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

You can clone a repository locally.

Clone Repository

To learn more about how to use git and source control in VS Code read our docs.

You can also open a Java project folder, or create a new Java project by clicking the button below.

Create Java Project

OUTLINE

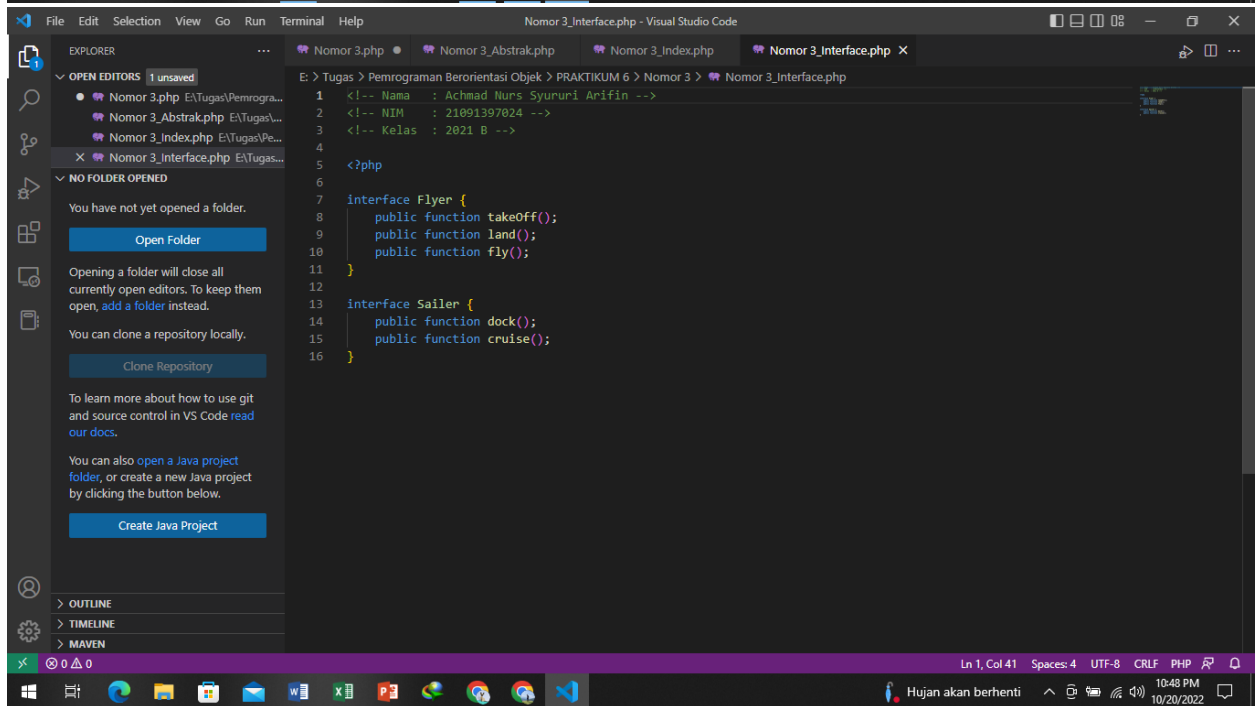
TIMELINE

MAVEN

```
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
53
54 </html>
```

Ln 1, Col 41 Spaces: 4 UTF-8 CRLF PHP

Hujan akan berhenti 10:48 PM 10/20/2022



File Edit Selection View Go Run Terminal Help

Nomor 3_Interface.php - Visual Studio Code

EXPLORER

OPEN EDITORS 1 unsaved

- Nomor 3.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Index.php
- Nomor 3_Abstrak.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Abstrak.php
- Nomor 3_Index.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Index.php
- Nomor 3_Interface.php E:\Tugas\Pemrograman Berorientasi Objek > PRAKTIKUM 6 > Nomor 3 > Nomor 3_Interface.php

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

You can clone a repository locally.

Clone Repository

To learn more about how to use git and source control in VS Code read our docs.

You can also open a Java project folder, or create a new Java project by clicking the button below.

Create Java Project

OUTLINE

TIMELINE

MAVEN

```
1 <!-- Nama : Achmad Nurs Syururi Arifin -->
2 <!-- NIM : 21091397024 -->
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 }
```

Ln 1, Col 41 Spaces: 4 UTF-8 CRLF PHP

Hujan akan berhenti 10:48 PM 10/20/2022

The screenshot shows the Visual Studio Code interface with the file 'Nomor 4.php' open. The Explorer sidebar on the left shows a project structure with files 'Nomor 4.php', 'Nomor 4_Abstrak.php', 'Nomor 4_Interface.php', and 'Nomor 4_Index.php'. The main editor area displays the code for 'Nomor 4.php' with the following content:

```
1 <!-- Nama : Achmad Nurs Syunuri Arifin -->
2 <!-- NIM : 21091397024 -->
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         $strip = $this->calcTripDistance();
19
20         return ceil($fuel / $strip);
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() {
```

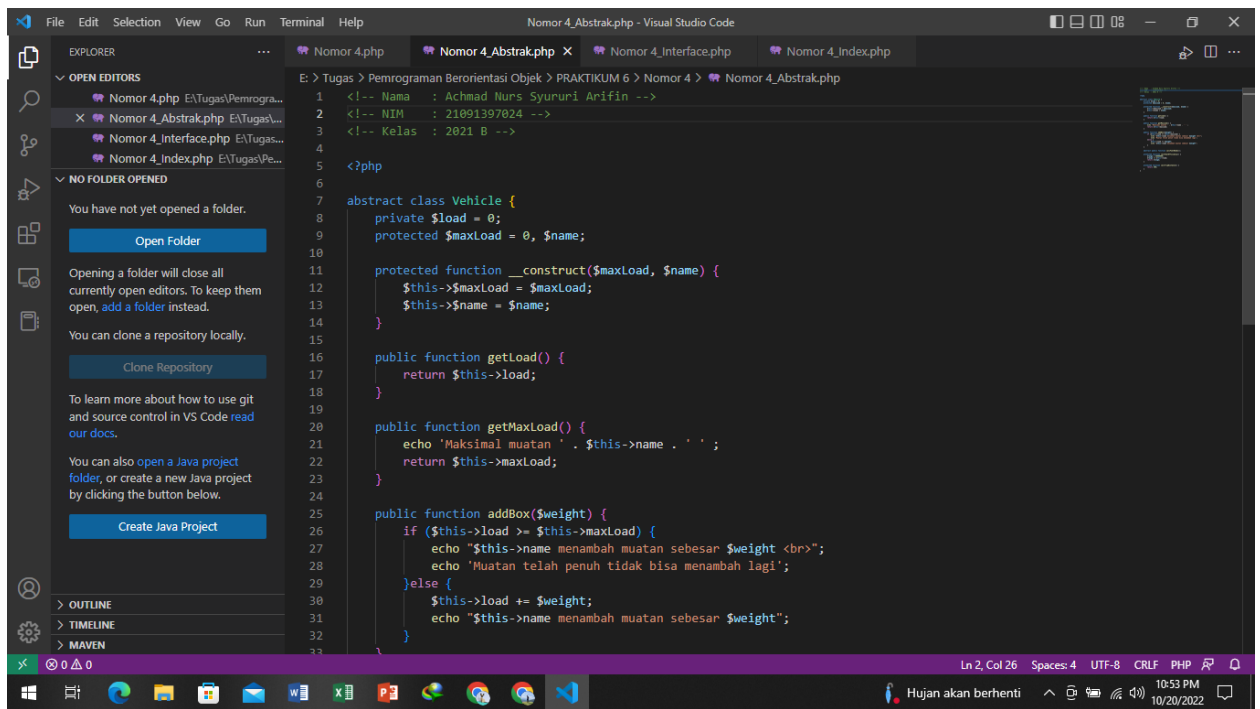
The status bar at the bottom indicates 'Ln 8, Col 21', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and the time '10:32 PM 10/20/2022'.

4.

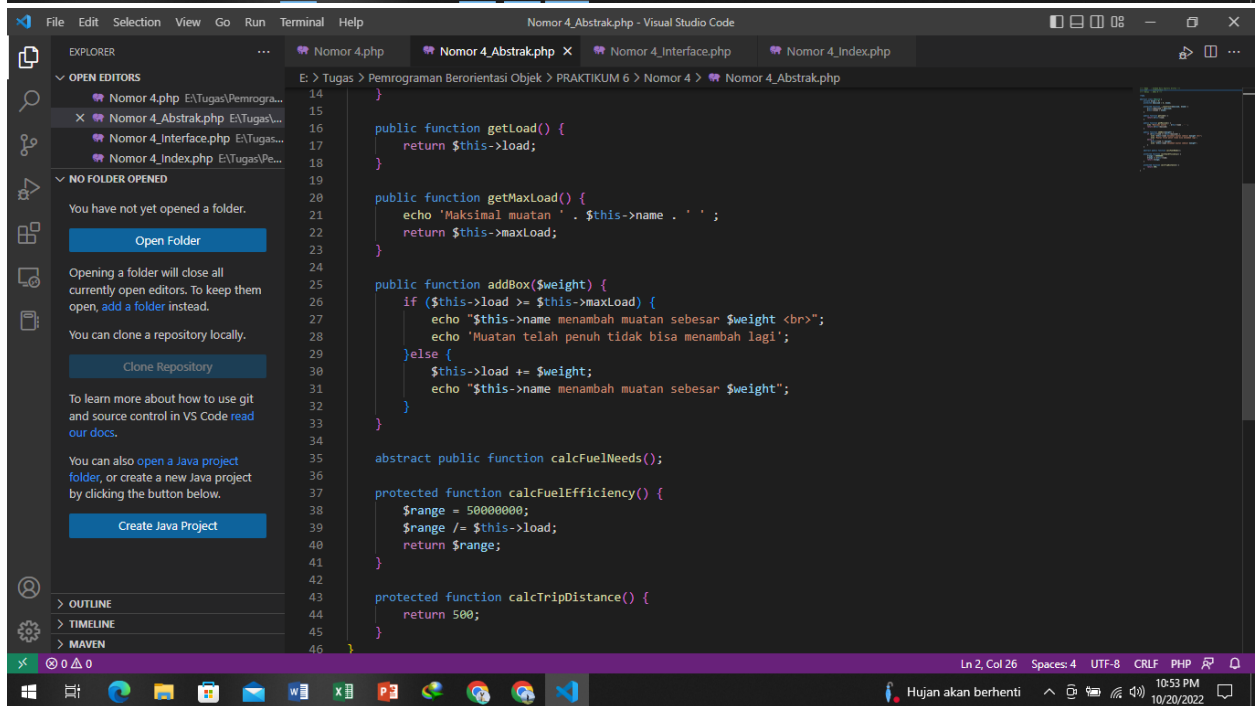
The screenshot shows the Visual Studio Code interface with the file 'Nomor 4.php' open. The Explorer sidebar on the left shows a project structure with files 'Nomor 4.php', 'Nomor 4_Abstrak.php', 'Nomor 4_Interface.php', and 'Nomor 4_Index.php'. The main editor area displays the code for 'Nomor 4.php' with the following content:

```
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         $strip = $this->calcTripDistance();
53
54         return ceil($fuel / $strip);
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 }
```

The status bar at the bottom indicates 'Ln 8, Col 21', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and the time '10:53 PM 10/20/2022'.



```
1 <!-- Nama : Achmad Nurs Syunuri Arifin -->
2 <!-- NIM : 21091397024 -->
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 = 50000000;
39     $range /= $this->load;
40     return $range;
41 }
42
43 protected function calcTripDistance() {
44     return 500;
45 }
46 }
```

```
1 <!-- Nama : Achmad Nurs Syururi Arifin -->
2 <!-- NIM : 21091397024 -->
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 : Achmad Nurs Syururi Arifin -->
2 <!-- NIM : 21091397024 -->
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="sha384-18mE4k8Bq781YhF1dvKuhfTAU6auU8tT94NrHftjDbrCEXSU1oBoqy12QvZ6jIW3" 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>
21
```

