LAPORAN PRAKTIKUM 6 PEMROGRAMAN BERORIENTASI OBYEK



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\$truck = new Truck(15000, 'Truck');

```
abstract class Vehicle {
     private $load = 0;
protected $maxLoad = 0, $name;
     protected function __construct($maxLoad, $name) {
   $this--$maxLoad = $maxLoad;
   $this--$name = $name;
     public function getLoad() {
    return $this->load;
     public function getMaxLoad() {
   echo 'Beban maksimal ' . $this->name . ' ';
          return $this->maxLoad;
    public function addBox($weight) {
   if ($this->load >= $this->maxLoad) {
      echo "$this->name menambah beban sebesar $weight <br/>echo 'Beban telah mencapai maksimal tidak bisa menambah lagi';
               $this->load += $weight;
echo "$this->name menambah beban sebesar $weight";
     abstract public function calcFuelNeeds();
     protected function calcFuelEfficiency() {
          $range = 50000000;
$range /= $this->load;
return $range;
     protected function calcTripDistance() {
    return 500;
class Truck extends Vehicle {
   public function __construct($maxLoad, $name)
          $this->maxLoad = $maxLoad;
          $this->name = $name;
     public function calcFuelNeeds()
          $fuel = $this->calcFuelEfficiency();
          $trip = $this->calcTripDistance();
          return ceil($fuel /= $trip);
$this->maxLoad = $maxLoad;
          $this->name = $name;
     public function calcFuelNeeds()
          $fuel = $this->calcFuelEfficiency();
          $trip = $this->calcTripDistance();
          return ceil($fuel /= $trip);
```

Beban maksimal Truck 15000 kg

Truck menambah beban sebesar 3000 kg Truck menambah beban sebesar 5000 kg Truck menambah beban sebesar 7000 kg Bahan bakar yang dibutuhkan adalah 7 Liter

Beban maksimal Tongkang Sungai 15000 kg

Tongkang Sungai menambah beban sebesar 7000 kg Tongkang Sungai menambah beban sebesar 5000 kg Tongkang Sungai menambah beban sebesar 3000 kg Bahan bakar yang dibutuhkan adalah 7 Liter

```
<?php
 interface Flyer {
   public function takeOff();
   public function land();
   public function fly();
class Airplane implements Flyer {
  public function takeOff() {
     return 'lepas landas (ya)';
  }
      public function land() {
    return 'mendarat (ya)';
}
       public function fly() {
    return 'terbang (ya)';
}
class Bird implements Flyer {
   public function takeOff() {
      return 'lepas landas (ya)';
   }
      public function land() {
    return 'mendarat (ya)';
}
      public function fly() {
    return 'terbang (ya)';
}
       public function buildNest() {
    return 'membangun sarang (ya)';
}
        public function layEggs() {
    return 'bertelur (ya)';
class Superman implements Flyer {
   public function takeOff() {
      return 'lepas landas (ya)';
        }
       public function land() {
    return 'mendarat (ya)';
}
      public function fly() {
    return 'terbang (ya)';
}
       public function leapBuilding() {
   return 'melompati bangunan (ya)';
}
        public function stopBullet() {
    return 'menghentikan peluru (ya)';
       }
$airplane = new Airplane;
$bird = new Bird;
$superman = new Superman;
                                          echo "Superman";
?></b> <br>
```

Superman mendarat (ya) lepas landas (ya) terbang (ya) melompati bangunan (ya) menghentikan peluru (ya)

Bird membangun sarang (ya) lepas landas (ya) terbang (ya) mendarat (ya) bertelur (ya)

Airplane lepas landas (ya) terbang (ya) mendarat (ya)

```
<?php
abstract class Vehicle {
  private $load = 0;
  protected $maxLoad = 0, $name;
      protected function __construct($maxLoad, $name) {
    $this->$maxLoad = $maxLoad;
             $this->$name = $name;
      public function getLoad() {
    return $this->load;
      public function getMaxLoad() {
   echo 'Beban maksimal ' . $this->name . ' ';
   return $this->maxLoad;
      public function addBox($weight) {
  if ($this->load >= $this->maxLoad) {
    echo "$this->name menambah beban sebesar $weight <br>;
    echo 'Beban telah mencapai maksimal tidak bisa menambah lagi';
             }else {
                  $this->load += $weight;
echo "$this->name menambah beban sebesar $weight";
           }
      abstract public function calcFuelNeeds();
      protected function calcFuelEfficiency() {
           $range = 50000000;
$range /= $this->load;
return $range;
      protected function calcTripDistance() {
    return 500;
}
interface Flyer {
   public function takeOff();
   public function land();
   public function fly();
class Animal
      protected $name;
      public function __construct($name)
           $this->name = $name;
      public function eat()
            return "$this->name sedang makan" ;
class Homosapiens extends Animal \{\}
class Airplane2 extends Vehicle implements Flyer
      public function __construct($maxLoad, $name)
            $this->maxLoad = $maxLoad;
$this->name = $name;
```

```
public function takeOff()
          return "$this->name lepas landas (ya)";
     }
     public function land()
          return "$this->name mendarat (ya)";
     public function fly()
          return "$this->name terbang (ya)";
     public function calcFuelNeeds()
          $fuel = $this->calcFuelEfficiency();
          $trip = $this->calcTripDistance();
          return ceil($fuel /= $trip);
class Superman2 extends Homosapiens implements Flyer
     public function takeOff()
          return "$this->name lepas landas (ya)";
     public function land()
          return "$this->name mendarat (ya)";
     public function fly()
          return "$this->name terbang (ya)";
     public function leapBuilding()
          return "$this->name melompati bangunan (ya)";
     public function stopBullet()
     {
         return "$this->name menghentikan peluru (ya)";
     }
}
$burung = new Animal('Burung');
$manusia = new Homosapiens('Manusia purba');
$airplane2(15000, 'Garuda');
$superman2 = new Superman2('Superman');
                    <?= $burung->eat(); ?> <br><?= $manusia->eat(); ?> <br>
                    <?php
                              echo "Bahan bakar yang dibutuhkan adalah " . $airplane2->calcFuelNeeds() . ' Liter'. '<br>';
                     cor>
?= $superman2->eat(); ?> <br>
<?= $superman2->land(); ?> <br>
<?= $superman2->takeOff(); ?> <br>
<?= $superman2->fly(); ?> <br>
<?= $superman2->land(); ?> <br>
<?= $superman2->land(); ?> <br>
<?= $superman2->stopBullet(); ?> <br>
<?= $superman2->stopBullet(); ?> <br>

                </div>
          </div>
    (/div)
</body>
</html>
```

Burung sedang makan Manusia purba sedang makan

Beban maksimal Garuda 15000 kg Garuda menambah beban sebesar 6000 kg Garuda menambah beban sebesar 2000 kg Garuda menambah beban sebesar 7000 kg Garuda lepas landas (ya) Garuda terbang (ya) Garuda mendarat (ya) Bahan bakar yang dibutuhkan adalah 7 Liter

Superman sedang makan Superman mendarat (ya) Superman lepas landas (ya) Superman terbang (ya) Superman melompati bangunan (ya) Superman menghentikan peluru (ya)

```
abstract class Vehicle {
       private $load = 0;
protected $maxLoad = 0, $name;
        protected function __construct($maxLoad, $name) {
    $this->$maxLoad = $maxLoad;
               $this->$name = $name;
       public function getLoad() {
    return $this->load;
       public function getMaxLoad() {
   echo 'Beban maksimal ' . $this->name . ' ';
   return $this->maxLoad;
       public function addBox($weight) {
   if ($this->load >= $this->maxLoad) {
      echo "$this->name menambah beban sebesar $weight ";
      echo 'Beban telah maksimal tidak bisa menambah lagi';
              }else {
                     se {
$this->load += $weight;
echo "$this->name menambah beban sebesar $weight";
       abstract public function calcFuelNeeds();
       protected function calcFuelEfficiency() {
              $range = 50000000;
$range /= $this->load;
return $range;
       protected function calcTripDistance() {
    return 500;
}
interface Flyer {
   public function takeOff();
   public function land();
   public function fly();
interface Sailer {
   public function dock();
   public function cruise();
class RiverBarge2 extends Vehicle implements Sailer {
  public function __construct($maxLoad, $name) {
    $this->maxLoad = $maxLoad;
               $this->name = $name;
       public function calcFuelNeeds() {
              $fuel = $this->calcFuelEfficiency();
$trip = $this->calcTripDistance();
             return ceil($fuel /= $trip);
       public function dock() {
    return $this->name . ' berhenti di dermaga';
       public function cruise() {
    return $this->name . ' berlayar';
}
```

```
class Airplane2 implements Flyer {
   public function takeOff() {
      return 'Pesawat lepas landas';
        public function land() {
    return 'Pesawat mendarat';
         public function fly() {
               return 'Pesawat terbang';
}
class SeaPlane extends Vehicle implements Sailer {
   public function __construct($maxLoad, $name) {
      $this->maxLoad = $maxLoad;
}
                $this->name = $name;
        public function calcFuelNeeds() {
    $fuel = $this->calcFuelEfficiency();
    $trip = $this->calcTripDistance();
                return ceil($fuel /= $trip);
        public function dock() {
    return $this->name . ' berhenti di dermaga';
       public function cruise() {
    return $this->name . ' berlayar';
}
       public function takeOff() {
    return $this->name . ' lepas landas';
}
       public function land() {
    return $this->name . ' mendarat';
}
        public function fly() {
    return $this->name . ' terbang';
class Helicopter extends Vehicle {
  public function __construct($maxLoad, $name) {
    $this->maxLoad = $maxLoad;
    $this->name = $name;
        public function calcFuelNeeds() {
    $fuel = $this->calcFuelEfficiency();
    $trip = $this->calcTripDistance();
```

return ceil(\$fuel /= \$trip); }
public function takeOff() {
 return Sthis->name . ' lepas landas';

public function land() {
 return \$this->name . ' mendarat';
}

public function fly() {
 return \$this->name . ' terbang';

}

```
$riverBarge2 = new RiverBarge2(15000, 'Getek');
$seaPlane = new SeaPlane(15000, 'Lion');
$helicopter = new Helicopter(15000, 'Paracoper');
    ?>
<br/>
<br/
                                                                                     echo "Bahan bakar yang dibutuhkan adalah " . $riverBarge2->calcFuelNeeds() . ' Liter'. '<br/>';
                                                                       <?php
                                                                      <b><?= $seaPlane->getMaxLoad() . ' kg'; ?> <br></b>
<?= $seaPlane->addBox(8000) . ' kg'; ?> <br><?= $seaPlane->addBox(7000) . ' kg'; ?> <br>
                                                                      <?= $seaPlane->dock(); ?> <br><?= $seaPlane->cruise(); ?> <br>
                                                                      <?= $seaPlane->takeOff(); ?> <br><?= $seaPlane->fly(); ?> <br><?= $seaPlane->land(); ?> <br>
                                                                    <?php
                                                                                                      echo "Bahan bakar yang dibutuhkan adalah " . $seaPlane->calcFuelNeeds() . ' Liter'. '<br';
                 </div>
               <?php
                                                                                                      echo "Bahan bakar yang dibutuhkan adalah " . $helicopter->calcFuelNeeds() . ' Liter'. '<br';
                 </div>
       </div>
 </div>
</body>
</html>
```

Beban maksimal Getek 15000 kg Getek menambah beban sebesar 3000 kg Getek menambah beban sebesar 4000 kg Getek menambah beban sebesar 4000 kg Getek menambah beban sebesar 4000 kg Getek berlayar Beban maksimal Lion 15000 kg Lion menambah beban sebesar 8000 kg Lion menambah beban sebesar 7000 kg Lion menambah beban sebesar 7000 kg Lion berhenti di dermaga Lion lepas landas Lion terbang Lion mendarat Bahan bakar yang dibutuhkan adalah 7 Liter Beban maksimal Lion 15000 kg Paracoper menambah beban sebesar 7000 kg Paracoper menambah beban sebesar 7000 kg Paracoper terbang Paracoper terbang Paracoper terbang Paracoper terbang Paracoper terbang Paracoper terbang Paracoper menambah beban sebesar 7000 kg Paracoper terbang Paracoper menambah beban sebesar 7000 kg Paracoper terbang Paracoper mendarat