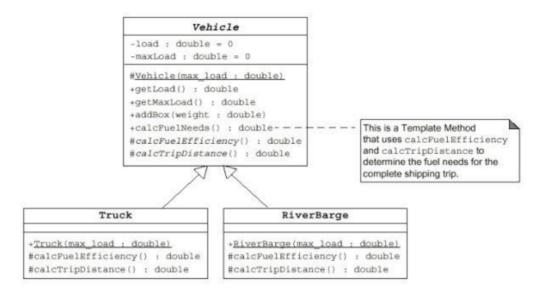
# LAPORAN PRAKTIKUM 6 ABSTRACT DAN INTERFACE UJIAN TENGAH SEMESTER



Oleh:

Fisma Meividianugraha Subani 21091397017

D4 MANAJEMEN INFORMATIKA
FAKULTAS VOKASI
UNIVERSITAS NEGERI SURABAYA
TAHUN AJARAN 2022/2023



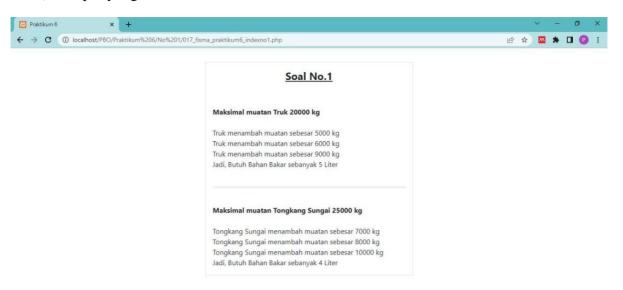
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# c) Source Code Abstract PHP (No 1)

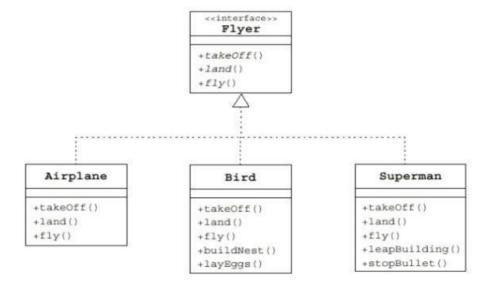
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## d) Output yang dihasilkan



## e) Analisis

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



a) Source Code Index PHP (No 2)

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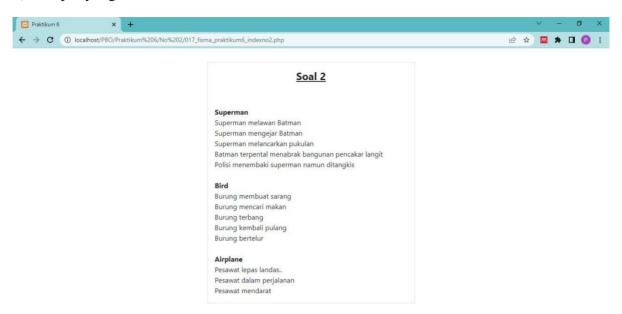
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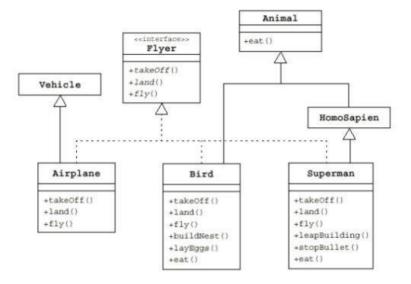
# c) Source Code Interface PHP (No 2)

# d) Output yang dihasilkan



# e) Analisis

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



a) Source Code Index PHP (No 3)

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## c) Source Code Abstract PHP (No 3)

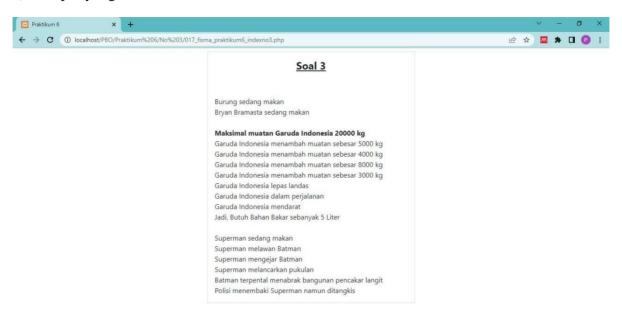
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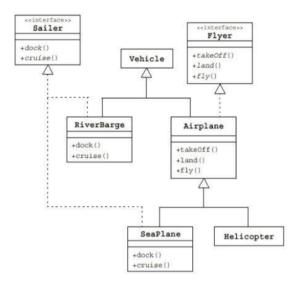
## d) Source Code Interface PHP (No 3)

## e) Output yang dihasilkan



#### f) Analisis

Terdapat interface Flyer dan abtract class Vehicle. Class airplane implementasi dari interface Flyer 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 juga turunan dari Animal, serta implementasi dari interface Flyer. Maka class Superman memiliki method eat, takeoff, land, fly.



# a) Source Code Index PHP (No 4)

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   public function _construct(smaxload, sname) {
      $this->maxload = smaxload;
      $this->name = $name;
   }
}
             class Helicopter extends Vehicle {
  public function _construct($maxload, $name) {
     $this->maxload = $maxload;
     $this->name = $name;
  }
             $riverBarge2 = new RiverBarge2(45000, 'Atomic');
$seaPlane = new SeaPlane(30000, 'Titanic');
$helicopter = new Helicopter(15000, 'Brocklyn');
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c) Source Code Abstract PHP (No 4)

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d) Source Code Interface PHP (No 4)



e) Output yang dihasilkan



# f) Analisis

Implementasi polymhorphism dengan interface dan abstact class detinjukkan pada class 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.