# Returning Multiple Values From Methods

It is not possible to return more than one value from a method. You cannot, for example, return the licensePlate, speed and maxSpeed fields from a single single method. You could combine them into an object of some kind and return the object. However this would be poor object oriented design.

The right way to solve this problem is to define three separate methods, getSpeed(), getMaxSpeed(), and getLicensePlate(), each of which returns its respective value. For example,

class Car {  
  
 String licensePlate = ""; // e.g. "New York 543 A23"  
 double speed = 0.0; // in kilometers per hour  
 double maxSpeed = 120.0; // in kilometers per hour  
   
 // getter (accessor) methods  
 String getLicensePlate() {  
 return this.licensePlate;  
 }  
  
 double getMaxSpeed() {  
 return this.maxSpeed;  
 }  
  
 double getSpeed() {  
 return this.speed;  
 }  
  
 // setter method for the license plate property  
 void setLicensePlate(String licensePlate) {  
 this.licensePlate = licensePlate;  
 }  
  
 // setter method for the maxSpeed property  
 void setMaximumSpeed(double maxSpeed) {  
 if (maxSpeed > 0) this.maxSpeed = maxSpeed;  
 else this.maxSpeed = 0.0;  
 }  
  
 // accelerate to maximum speed  
 // put the pedal to the metal  
 void floorIt() {  
 this.speed = this.maxSpeed;   
 }  
   
 void accelerate(double deltaV) {  
  
 this.speed = this.speed + deltaV;  
 if (this.speed > this.maxSpeed) {  
 this.speed = this.maxSpeed;   
 }  
 if (this.speed < 0.0) {  
 this.speed = 0.0;   
 }   
   
 }  
   
}

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