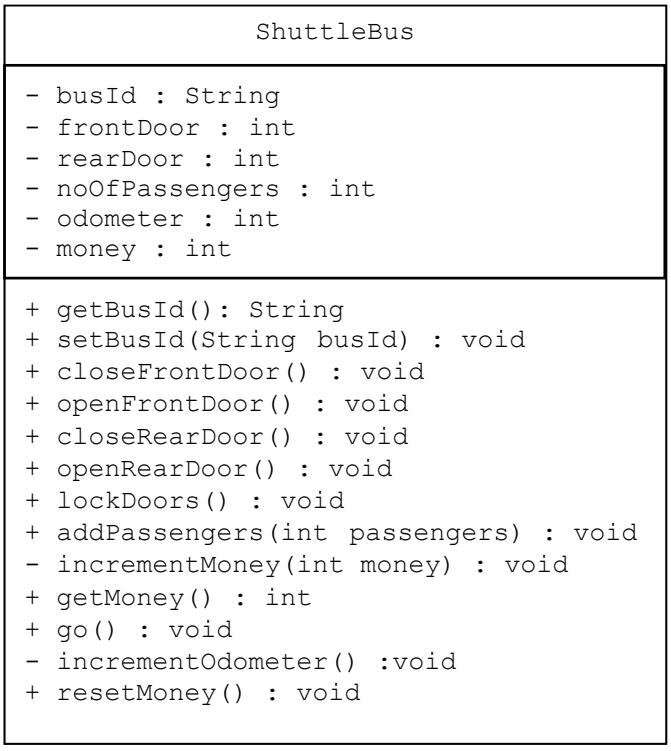
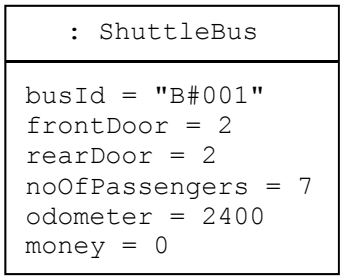
1. Given the following class diagram and an object diagram, follow the instruction below.

Class Diagram



Object Diagram



1.1) Write a java class according to the above class diagram (on the left side) and the following requirements.

(1) The value of `frontDoor` and `rearDoor` has the following meaning:
- `0` stands for opened
- `1` stands for closed
- `2` stands for locked

(2) The `lockDoors()` method must lock all doors.

(3) The `noOfPassengers` is increased by calling the `addPassengers(int passengers)` method. When the `addPassengers(int passengers)` method is called, the money must added by calling the `incrementMoney(int money)` method as well and the added amount must be the number of added passengers × `7` baht.

(4) Each time that the `go()` method is called, the `odometer` must be increased by calling the `incrementOdometer()` method and the increase amount is must be `800` meters.

(5) The `resetMoney()` method reset `money` to `0`.

(6) The `ShuttleBus` class must have the following constructors.
- `ShuttleBus() // default constructor`
- `ShuttleBus(String busId)`
- `ShuttleBus(String busId, int odometer)`
- `ShuttleBus(String busId, int odometer, int money)`

1.2) Write a driver class to create a `ShuttleBus` object using the default constructor, then call the methods in the `ShuttleBus` class so that this object changes its state to the state given in the object diagram above.