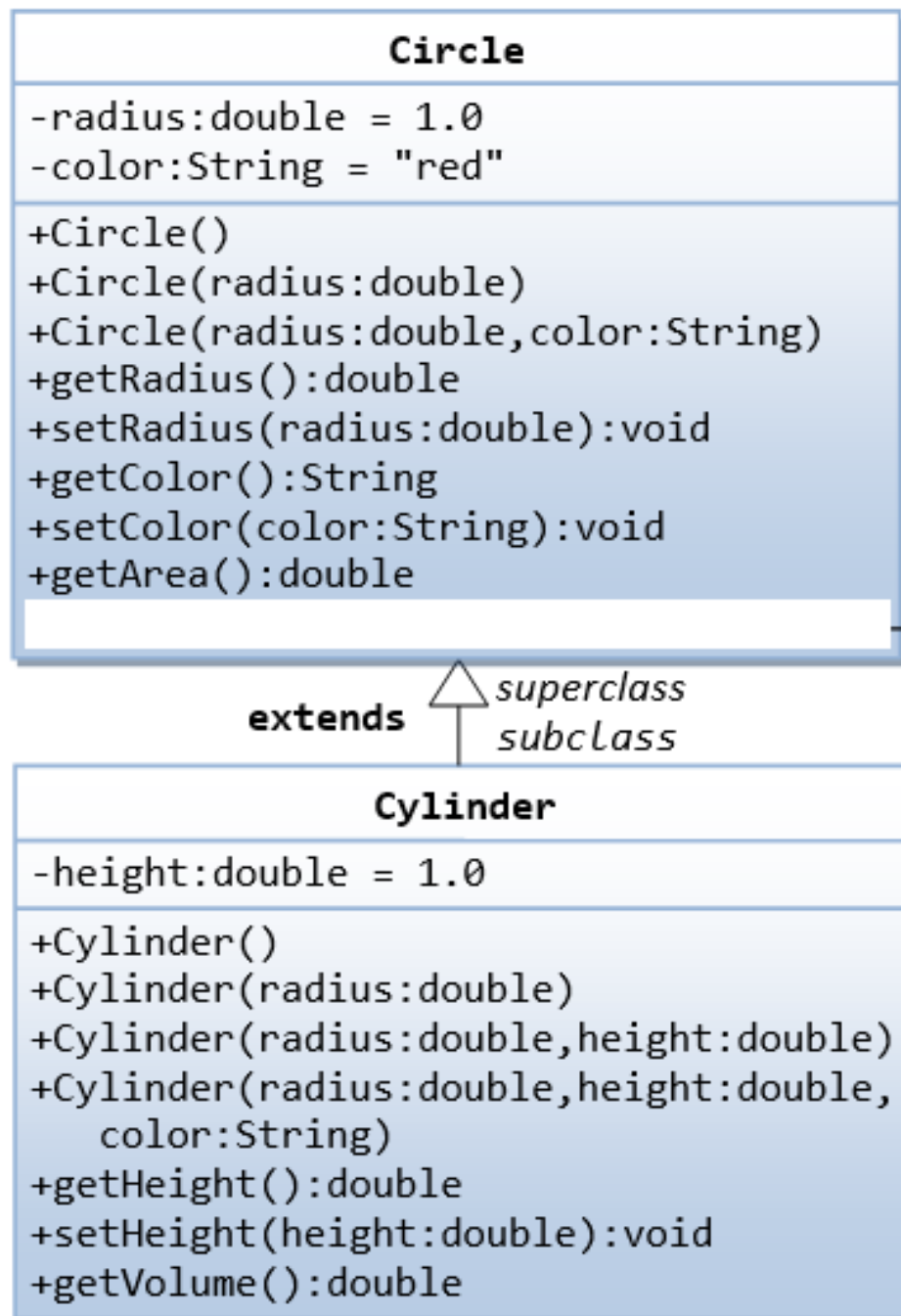


## **Assignment 7**

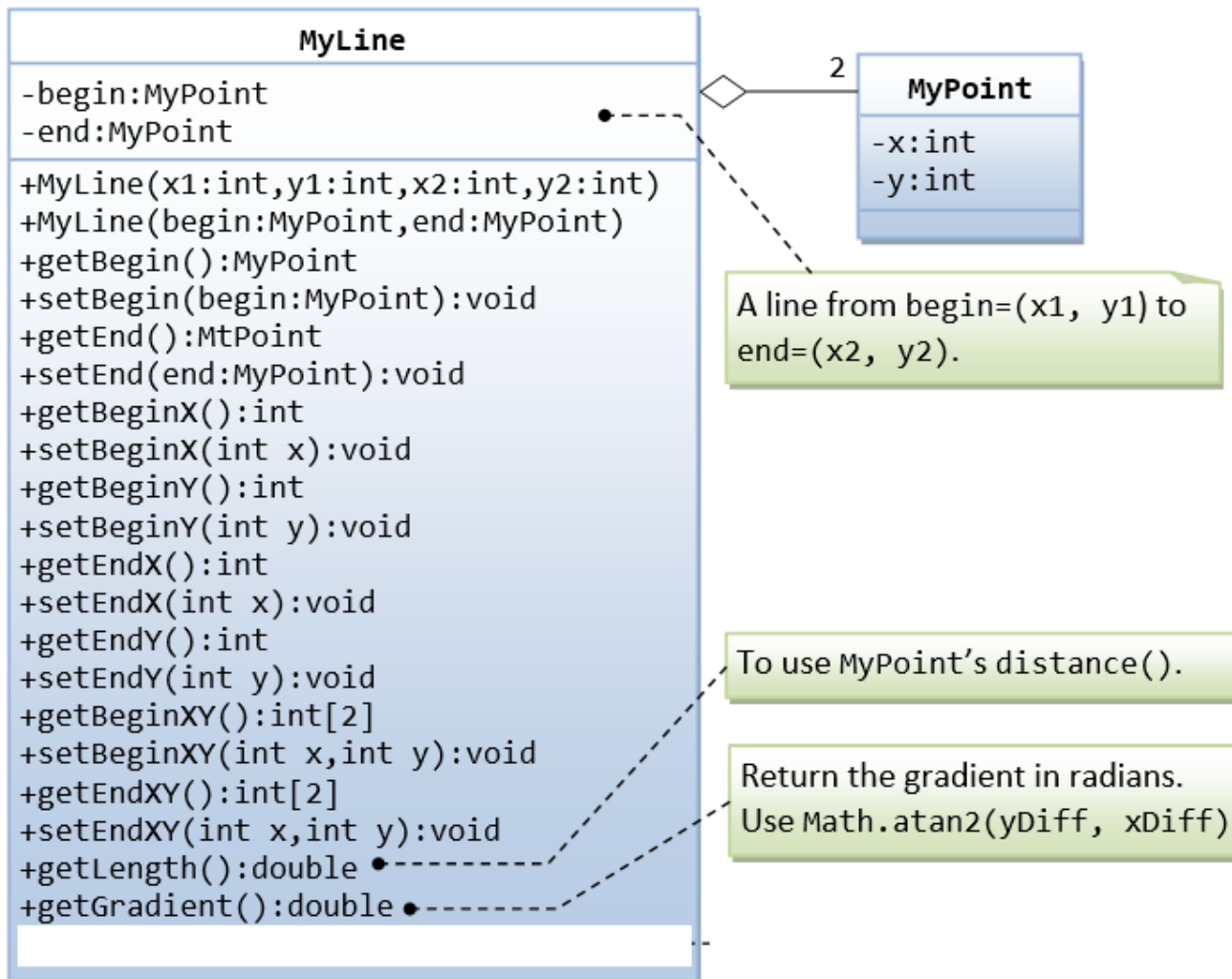
### **Task 1:**

- a. Create class Vehicle which contains:
  - Vehicle model string
  - Registration number string
  - Vehicle speed (km/hour) integer
  - Fuel capacity (liters) double
  - Fuel consumption (liter/km) double
  - Parameterized constructor that will initialize all the data members with the given values.
  - fuelNeeded() method that will take distance then calculate the amount of fuel needed
  - A method distanceCovered() that will take time (in hours) as an argument. It will calculate the distance for the given time
  - A display() method that will display all the information of a vehicle.
  
- b. Create Class Truck which will inherit from Vehicle:
  - Cargo weight limit (Kilo grams)// data member
  - Parameterized constructor
  - Setter and getter
  - A display() method which will call parent display() then print Cargo weight value.
  
- c. Create Class Bus which will inherit from Vehicle:
  - Data members: Num of passengers int
  - Parameterized constructor
  - Setter and getter
  - A display() method which will call parent display() then print the number of passengers.

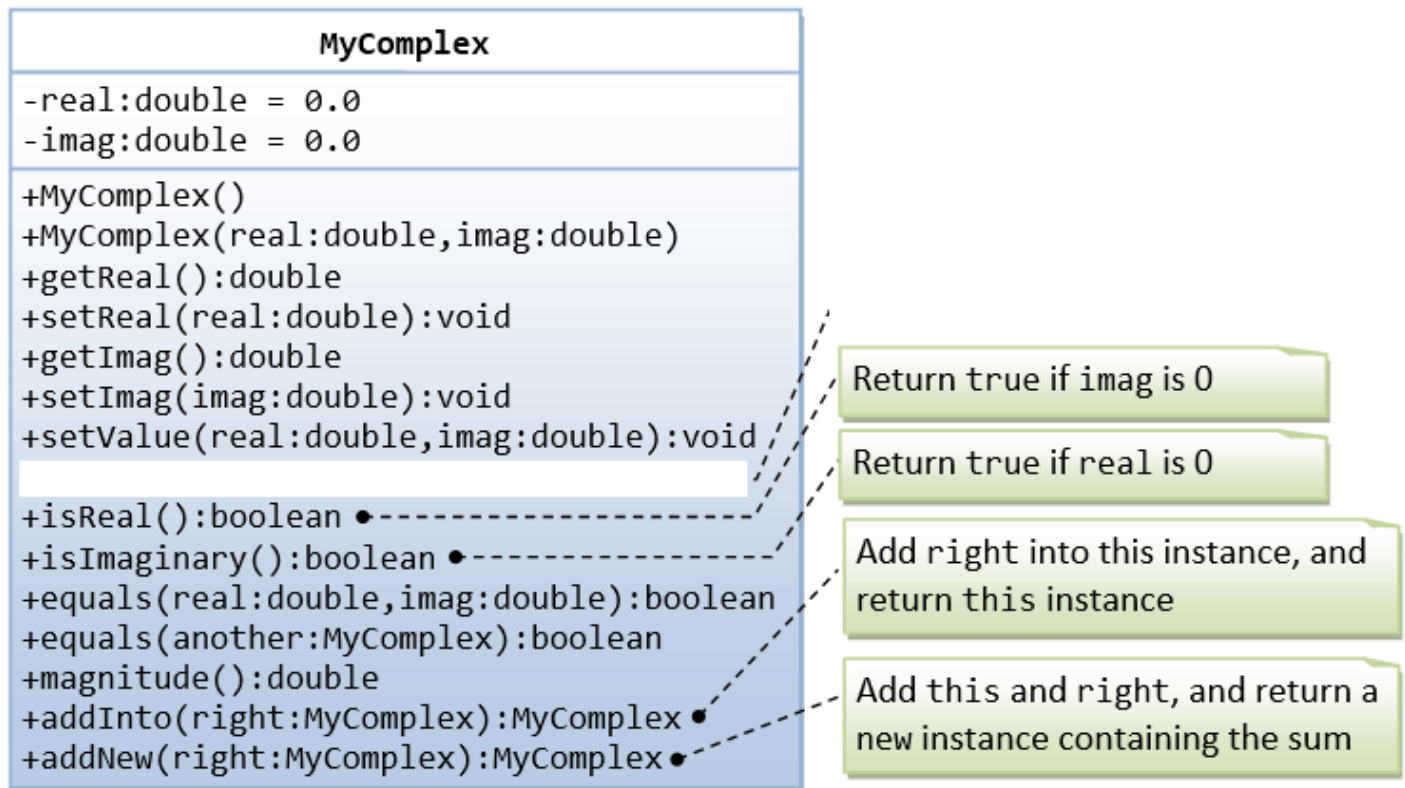
## Task 2:



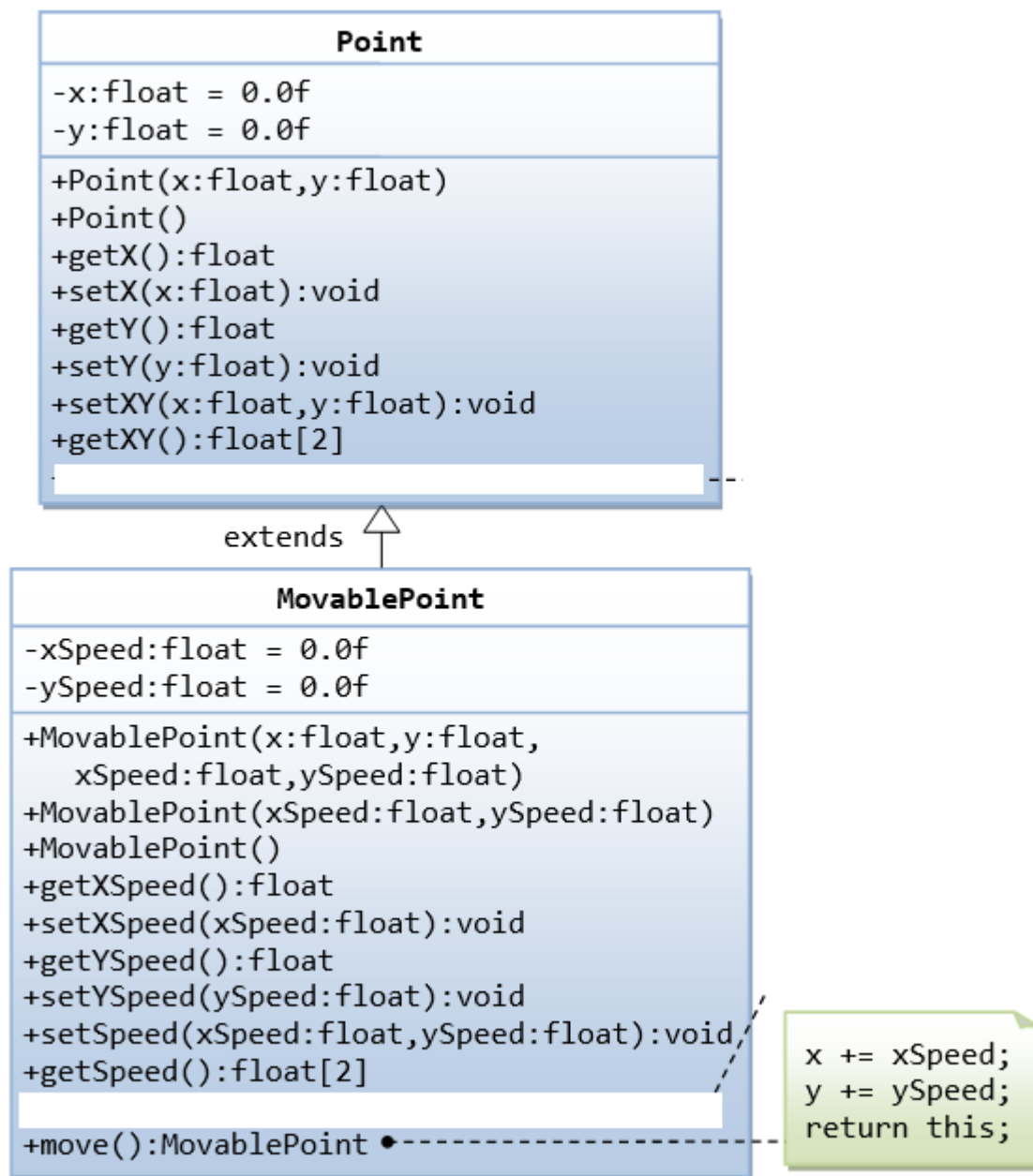
### Task 3:



## Task 4:



## Task 5:



## Task 6:

What is the Difference between composition vs inheritance with example by code ?