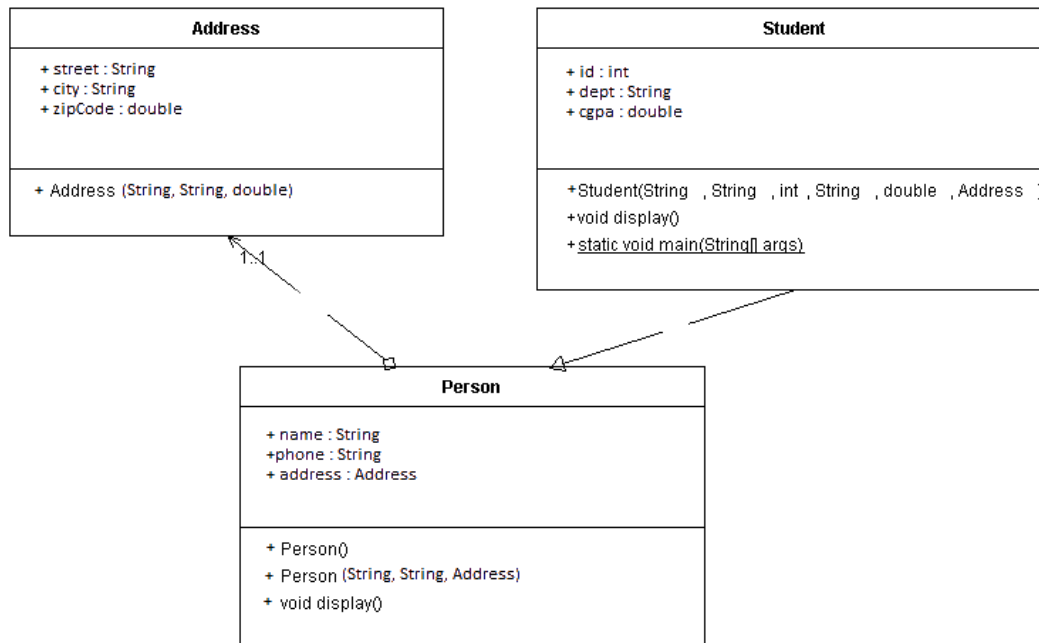1. Implement following UML using Java code and create necessary object in the main() method, demonstrate all methods and show the respective operation.
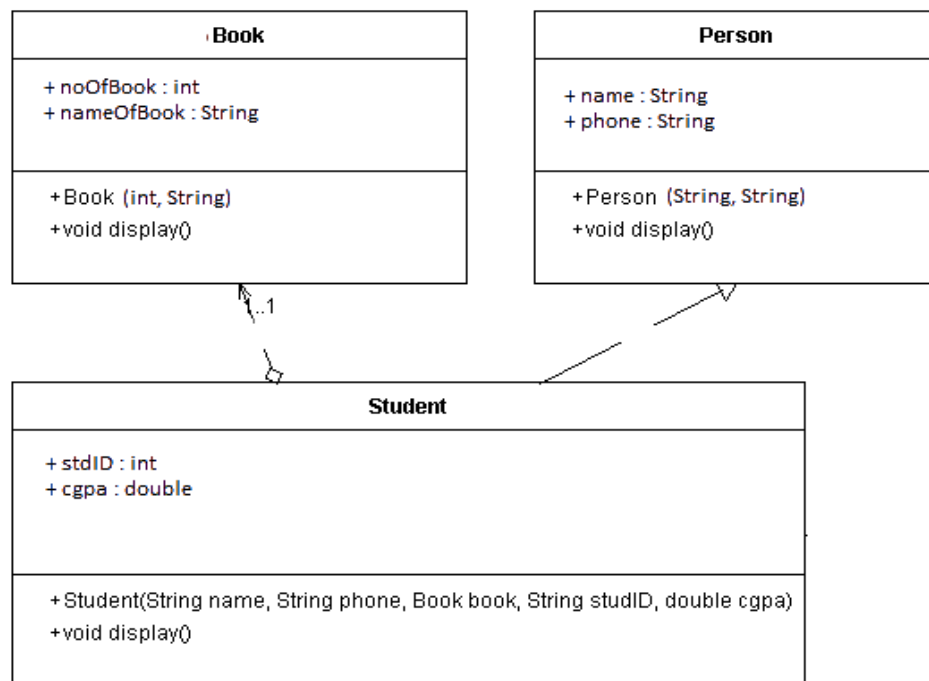
Address
+ street : String + city : String + zipCode : double
+ Address (String, String, double)

Student
+ id : int + dept : String + cgpa : double
+Student(String , String , int , String , double , Address) +void display() + static void main(String[] args)

1:1

Person
+ name : String +phone : String + address : Address
+ Person() + Person (String, String, Address) + void display()

2. **Object Oriented Modeling using UML**

There is a Shop in the city. The Shop has name, location and also has Items. Every Item has name, itemId, quantity. The Shop has also some Customers. The Shop sells Items to its Customers. Customer has name, phn_no, gender, customerId. Shop, Customer and Item each are have operation as their own name and has display.

N.B. You are allowed with necessary assumptions for return type and parameter of services

i

1. Implement following UML using Java code and create necessary object in the main() method, demonstrate all methods and show the respective operation.

Book
+ noOfBook : int + nameOfBook : String
+Book (int, String) +void display()

Person
+ name : String + phone : String
+Person (String, String) +void display()

..1

Student
+ stdID : int + cgpa : double
+Student(String name, String phone, Book book, String studID, double cgpa) +void display()

2. **Object Oriented Modeling using UML**

MawaGhat is a Terminal which is situated in the bank of the padma river. Terminal has type and name/number. MawaGhat has some Resort also. MawaGhat also has no_of_hotel, no_of_vehicle. A Resort has name, location, areaSize. Terminal also has operation of its name. MawaGhat, Terminal and Resort also have display as its operation.

N.B. You are allowed with necessary assumptions for return type and parameter of services