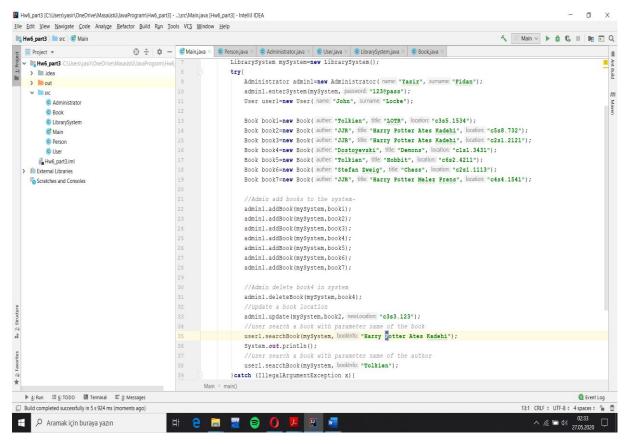
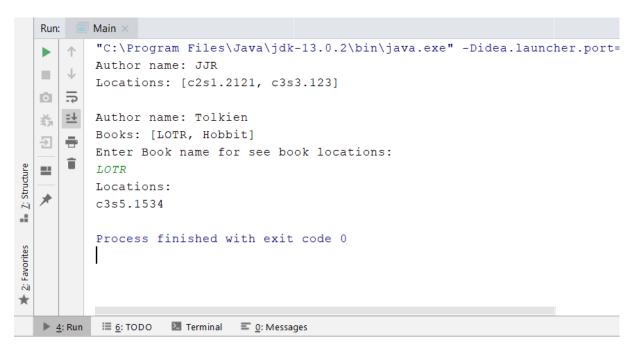
Homework #6 - Part3 Report

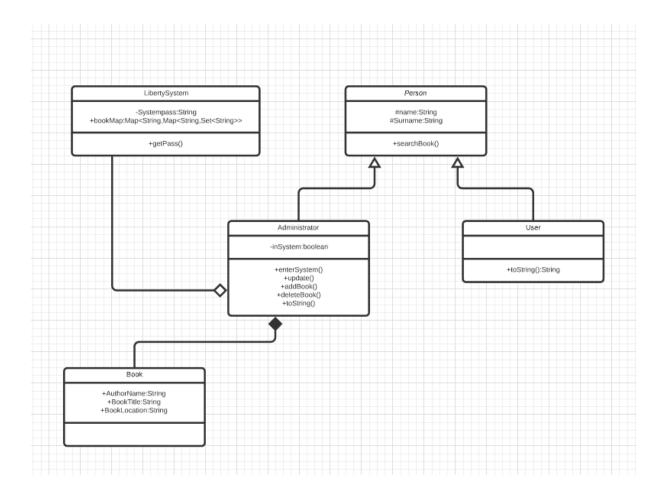
In my design there is 5 class. Person class is a base class for Administator and User class because , both admin and user can search book in system so I implement search book method in Person base class,so both of them can search a book. LibertySystem is my system class it has a map like mentioned in pdf and a password for admin login. Admin has login, addbook,removebook and update methods. With login method if method argument and data field password of LibertySystem matched then he/she enter the system and can use addbook, removebook and update methods freely. If admin try add/remove or update before entering system, program will throw an IllegelArgument exception. Admin can add book to system with addBook, remove book from system with removeBook and update some boks locations in system with updateInformation methods. Books have Author name, book title and book location informations.



This is my main ss. In line 9 I create an admin after that I use enterSystem method and my admin enter system and create a user in line 11. Then in line 13 and 19 I create some books and in line 22 and 28 I add this books into the system. In line 31 I remove book4 from the system now there is no book4 in my system. In line 33 with admin update method I update book2 location as c3s3.123. After that I call searchbook 2 times, first search use a book name argument and second search method use a author name. Both of them work as mentionad in pdf.

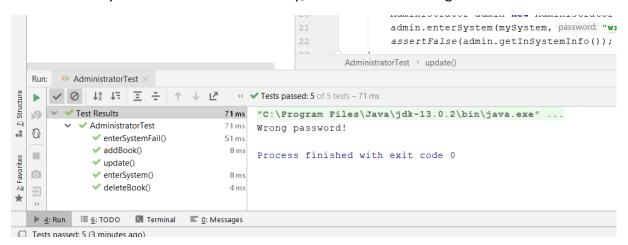


This is my output. First search use book name as argument so it prints Author name and All locations of that book. Then my second search method call use author name as argument, so it prints author name and all books that author have, after that it ask user a input then its prints input book locations in system(in this example I enter LOTR and its location c3s5.1534 so it prints it).



Test cases:

You can find my test cases under Test library, I use Junit5 for testing.



Test	Test	Expected	Actual	Pass/Fail
Case	Scenario	Results	Results	
Id				
1	Enter system with	Admin.inSystem=true	As expected	Pass
	correct password			
2	Enter system with	Admin.inSystem=false	As expected	Pass
	wrong password			
3	Update a book	Book new location =c1s1.111	As expected	Pass
	location			
4	Add a book to the	Book("Tolkien","LOTR","c3s5	As expected	Pass
	system	1534") added to system		
5	Remove a book	System has no book	As expected	Pass
	from system			

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