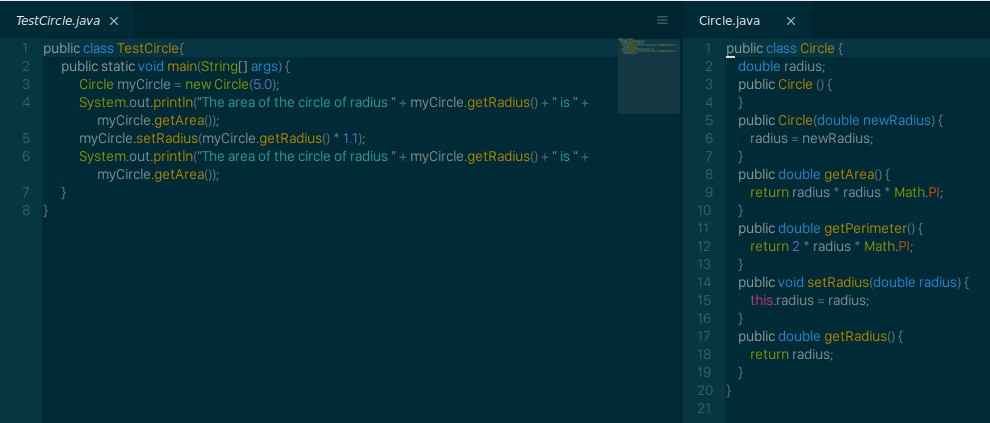
Assignment 1

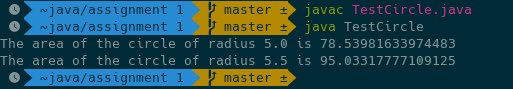
Abubakar Yagoub Ibrahim 1625897;

Task 1:

Code:



Output:



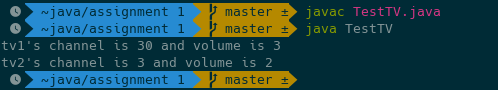
Task 2:

Code:



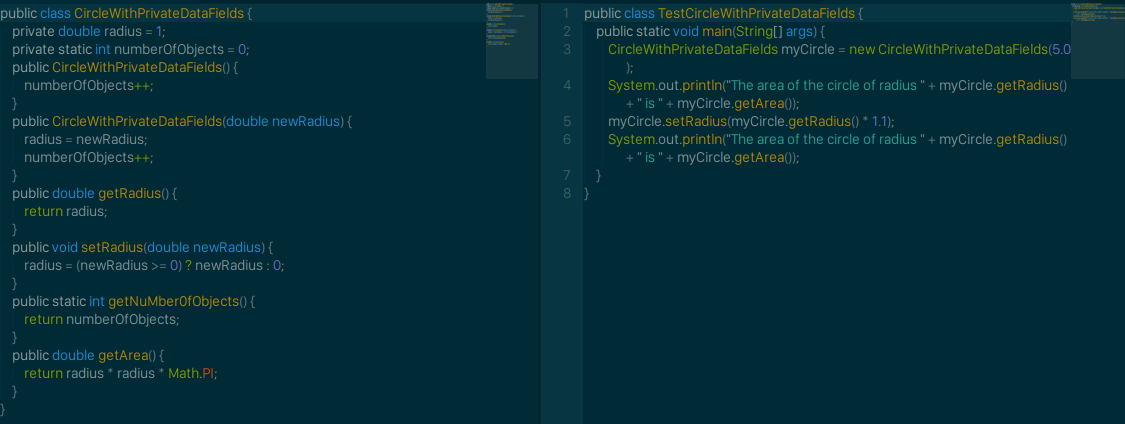


Output:

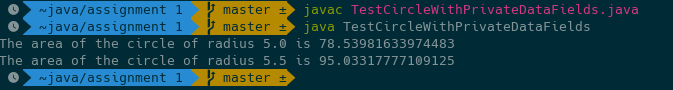


Task 3:

Code:

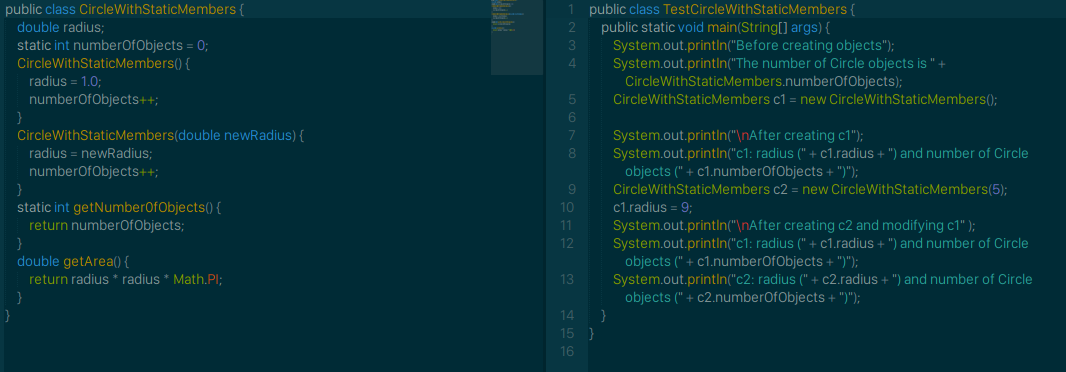


Output:

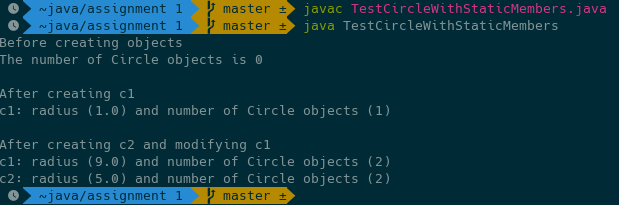


Task 4:

Code:

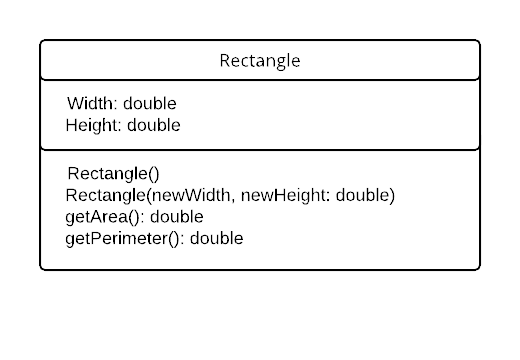


Output:

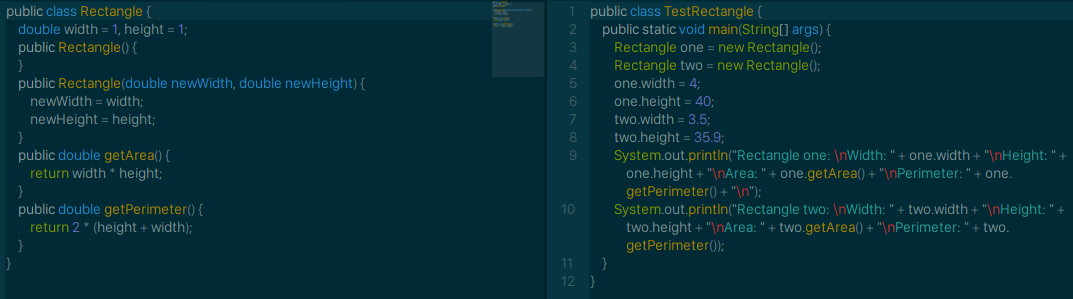


Exercise 1:

UML:



Code:

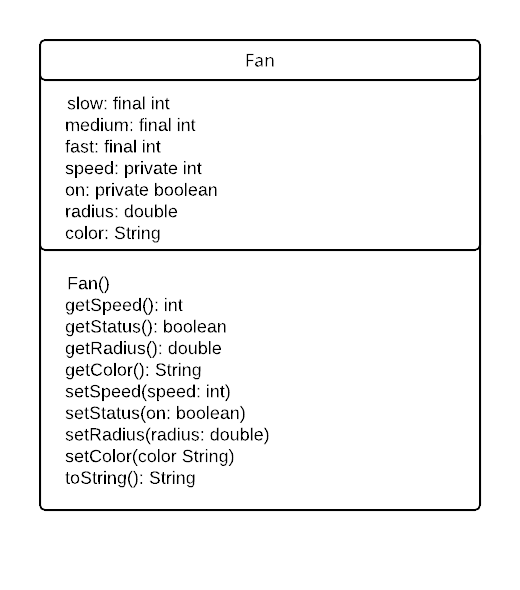


Output:



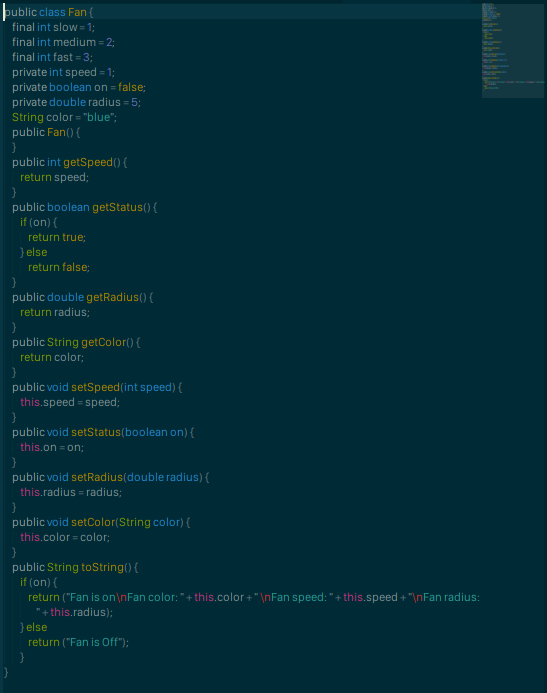
Exercise 2:

UML:

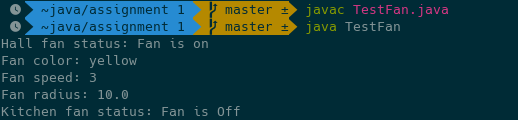


Code:



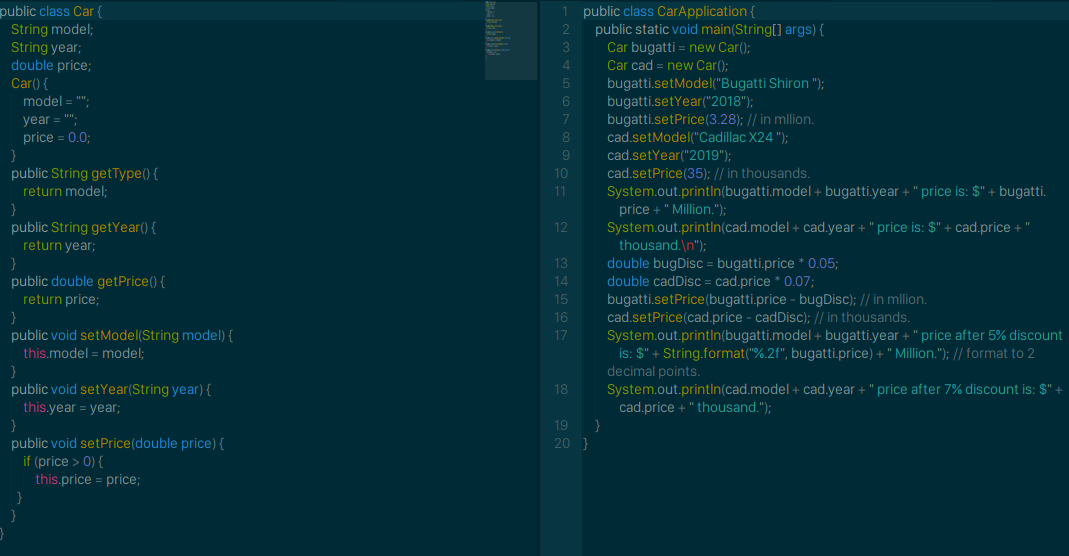


Output:

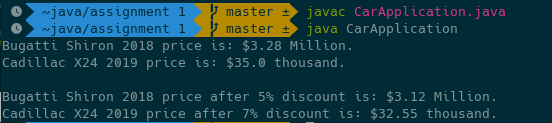


Exercise 3:

Code:

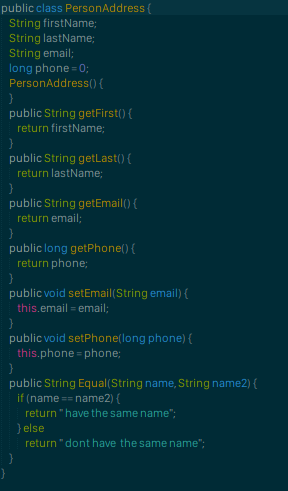


Output:



Exercise 4:

Code:





Output:

