16.17 – I like the steps given, I think they are good scenarios with good detail, and am happy to work with them.

16.18 – Enable a single passenger to be picked up and taken to her destination by a single taxi – We need to ensure that each passenger can be assigned to a different taxi and taken to the appropriate destination as efficiently as possible

16.19 – So the act method, for taxi, firstly gets in the target location for a taxi, if this is equal to null, it will not run and the idle count of the taxi will be increased. Otherwise, if this is not null then the next location of the taxi is set to the target location of the passenger. Then if the target location is equal to the taxis location, this is to ensure that only one taxi shows up to the passenger. Next, if there actually is a passenger in the taxi, then the passenger is notified of arrival and offloaded, otherwise if passenger is not yet in the taxi then they are then notified of pickup.

16.20 – I believe, there could be two lists for active taxis, then non active taxis, and a method to move these between lists such as moveTaxiList() in which you move a taxi from idle to active or vice versa

16.21 – I believe the class cannot accept multiple passengers, I think the request pickup method would need to take in a parameter of an array of passengers in which includes the number of passengers, and pass this into the assignments map, in which can be changed to have an array of passengers and then as long as this is a correct value in which can fit in a taxi or shuttle then we can pickup a number of passengers rather than just one.

16.22 – So like I said in the last exercise, this is not a good approach having the assignments map only take in passenger, this should be changed to an array of passengers to ensure that we can pickup more than one passenger.

16.23 – I believe that having a unique identifier for each vehicle passenger association is a great idea as it would remove the need to two lists like I mentioned earlier

16.24 – A number of the tests in the TaxiTest file will need changed and will not be able to be ran as part of regression as I plan on changing the taxi class assignments map to contain an array of passengers rather than just one therefore these tests will fail, and then a few more will need to be written in the PassengerSource test as well to support more than one passenger.

16.25 – implementation to be completed