## Lab 4 – Tyler Hannan and Mark Vitale

- We made a stub database and using the Record method within mocks we assigned specific behaviors to calling getRoomOccupant with the inputs 24 and 1025. We set the targets database to our mock database. We then called getRoomOccupant with those two values and checked that the proper result was received.
- 2. If you use LastCall.Throw(Exception exception) the database would have thrown an exception on being called.
- 3. If you have no need of returning anything or throwing an error, there is no need for a stub. You could replace it with a DynamicMock in this case.
- 4. We create the stub database again and defined a list of rooms. We then assigned that list of rooms to our mockDatabase. Rooms (as an expectation), and when hotel calls on its database. Rooms, the Rooms list assigned in the test is passed as the database's Rooms field.
- 5. 2 Cars and a service locator are made, the cars are added to the service locator. It is then set to be a global instance of the ServiceLocator. We book one of the cars, and the user class calls on the global instance of the ServiceLocator, modifying it. Then in the test case, as the global instance has been modified, the changes are checked and found to be true.