

Test Scenario Number:	001	Tested By:	Ryan Bomalaski
Sprint Number:	001	Application:	main.py
Tracker ID:	ST-001	Time Estimation:	20 Minutes
Module:	N/A	Type:	Stepwise
Test Scenario and Requirements Description: Prerequisites: <ul style="list-style-type: none"> User has Collision Avoidance folder User has Python 3.X installed with stock IDLE 3 IDE User has SQLite3 Installed 			
Scenario Title: Import Airplanes from Database Scenario Procedure: Using the provided scripts, the user will import the test airplanes to the python algorithm.			
Scenario Steps:		Validation:	
Create Airplane Test Database: <ol style="list-style-type: none"> Open New Terminal Navigate to .../collision_avoidance/src/python Run command: <ol style="list-style-type: none"> sqlite3 airwaves.db 		The SQLite program will start in the terminal, opening up the airwaves.db. If no database exists, it will create it.	
Implement Starting Data: <ol style="list-style-type: none"> While in SQLite3 run the command: <ol style="list-style-type: none"> .read db_update.sql While in SQLite3 run the command: <ol style="list-style-type: none"> .schema While in SQLite3 run the command: <ol style="list-style-type: none"> .exit 		The schema for the tables airwaves and stage should appear. Then the exit command will bring the user back to the linux terminal.* * - Note: If this is the first set up of the table, two errors will appear with the db_update.sql script	
Open main.py in terminal: <ol style="list-style-type: none"> In the same terminal as above, run the following: <ol style="list-style-type: none"> python3 -i main.py 		Will open the python terminal (Denoted with the ">>>").	
Create Simulator object and populate with Airplanes: <ol style="list-style-type: none"> Create a new simulator object by typing the following command: <ol style="list-style-type: none"> sim = Simulator(0) Populate the simulator with aircraft by running: <ol style="list-style-type: none"> sim.createAirplanes() Confirm that two airplanes were created by running: <ol style="list-style-type: none"> sim.airplanes Exit python by running <ol style="list-style-type: none"> exit() 		A list of two airplane objects with the address in memory will appear. Upon exit, the user will be back at the linux terminal.	

