Test Scenario Number:	002	**Tested By:**	Ryan Bomalaski
Sprint Number:	1	**Application:**	main.py
Tracker ID:	ST-002	**Time Estimation:**	30 Minutes
Module:	N/A	**Type:**	Stepwise

Test Scenario and Requirements Description: Tester will run test script test_002.sh to test Scenario 2.

Prerequisites:

- User has Collision Avoidance folder
- User has SQLite3 Installed

Scenario Title: Run Simulator for 120 Steps with resolution of 2 steps per second.

Scenario Procedure:

Using the provided scripts, the user will import the test airplanes to the python algorithm. Then the user will run the simulator for 120 steps.

Scenario Steps:	Validation:
Create Airplane Test Database: 1. Open New Terminal 2. Navigate to …/collision_avoidance/test_scripts 3. Run command: 1. ./test_002.sh	SQLite will initialize with test attributes. The terminal will open the python terminal (Denoted with the “>>>”).* * - Note: If this is the first set up of the table, two errors will appear.

Create Simulator object and populate with Airplanes:
1. Create a new simulator object with step count of 120 by typing the following command:
    1. sim = Simulator(120,2)
2. Populate the simulator with aircraft by running:
    1. sim.create_airplanes()
3. Confirm that two airplanes were created by running:
    1. sim.airplanes
	A list of two airplane objects with the address in memory will appear.

Run Simulator:
1. In python environment, run the following command:
    1. sim.run_sim()
2. When the simulator is complete, run:
    1. exit()
	The simulator will step through 120 steps, giving outputs for both airplanes. Upon exit, the user will be back at the linux terminal.