Test Scenario Number:	004	Tested By:	Ryan Bomalaski
Sprint Number:	1	Application:	main.py
Tracker ID:	ST-004	Time Estimation:	30 Minutes
Module:	N/A	Type:	Stepwise

Test Scenario and Requirements Description: Tester will run test script test_004.sh to test Scenario 4.

Prerequisites:

- User has Collision Avoidance folder
- User has SQLite3 Installed

Scenario Title: Run Simulator for 75 Steps with resolution of 10 steps per second to simulate 7.5 seconds of flight time.

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 75 steps.

Then the user will full the simulator for 73 steps.			
Scenario Steps:	Validation:		
Create Airplane Test Database: 1. Open New Terminal 2. Navigate to/collision_avoidance/test_scripts	SQLite will initialize with test attributes. The terminal will open the python terminal (Denoted with the ">>>").*		
3. Run command: 1/test_004.sh	* - Note: If this is the first set up of the table, two errors will appear.		
Create Simulator object and populate with Airplanes:	A list of two airplane objects with the address in memory will appear.		
 Create a new simulator object with step count of 75 by typing the following command: sim = Simulator(75,10) 			
2. Populate the simulator with aircraft by running:1. sim.create_airplanes()			
3. Confirm that two airplanes were created by running:1. sim.airplanes			
Run Simulator:	The simulator will step through 75 steps, giving		
 In python environment, run the following command: sim.run_sim() When the simulator is complete, run: exit() 	outputs for both airplanes. Upon exit, the user will be back at the linux terminal.		
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