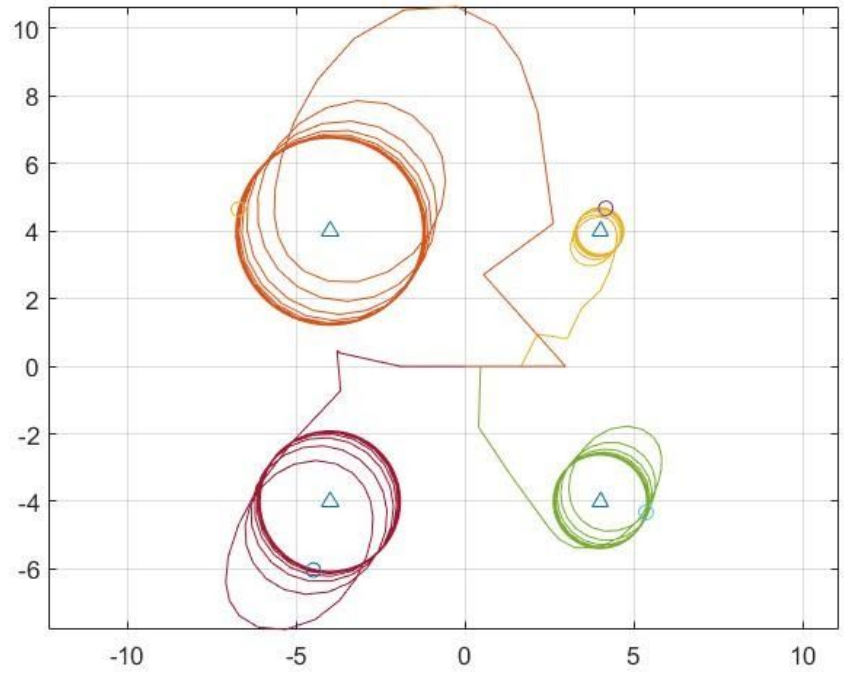
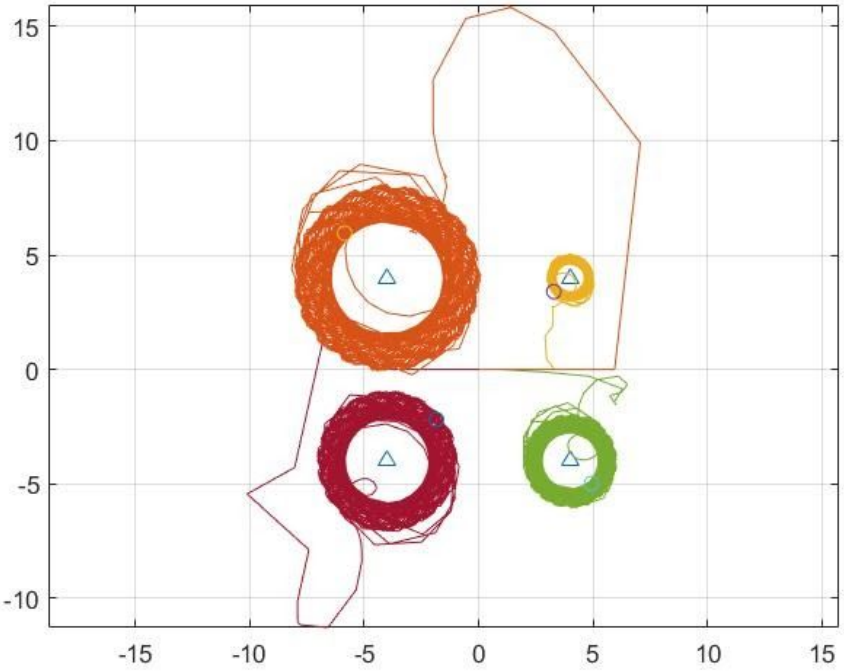
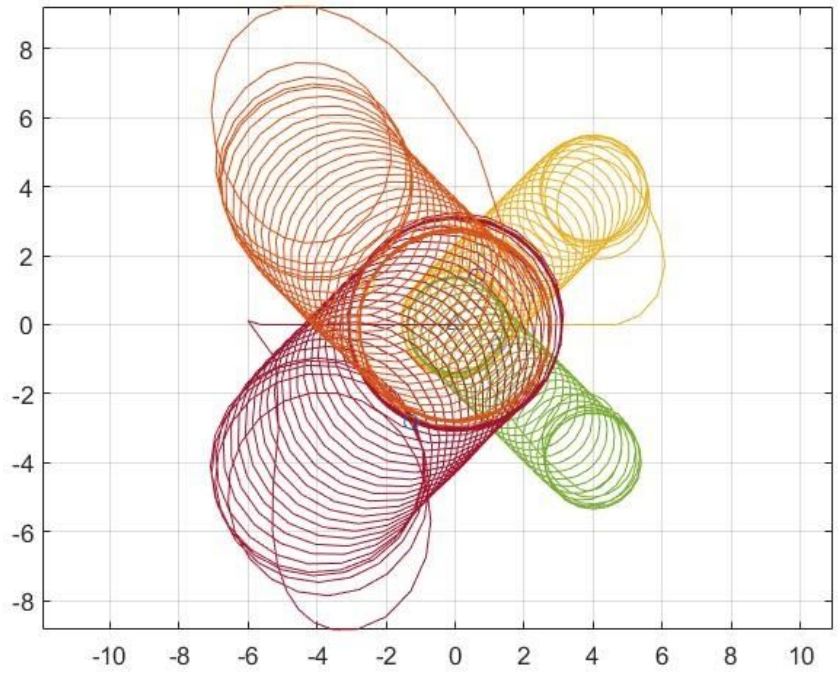
Example - 1: There are 8 vehicles all located at origin initially and 4 targets at (4,4), (4,-4), (-4,-4) and (-4,4). The radius of revolution for the 8 vehicles is r=[1;2;3;4;1;2;3;4] respectively. Plot the movement of vehicles for different possible scenarios.

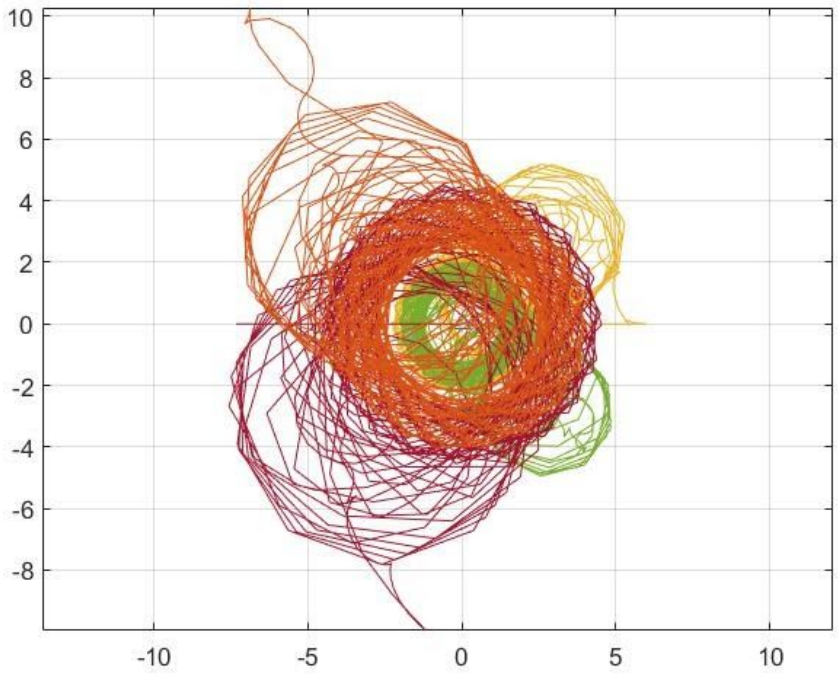
Scenario 1: Plot for stationary Targets using ode45 solver and euler method respectively ;



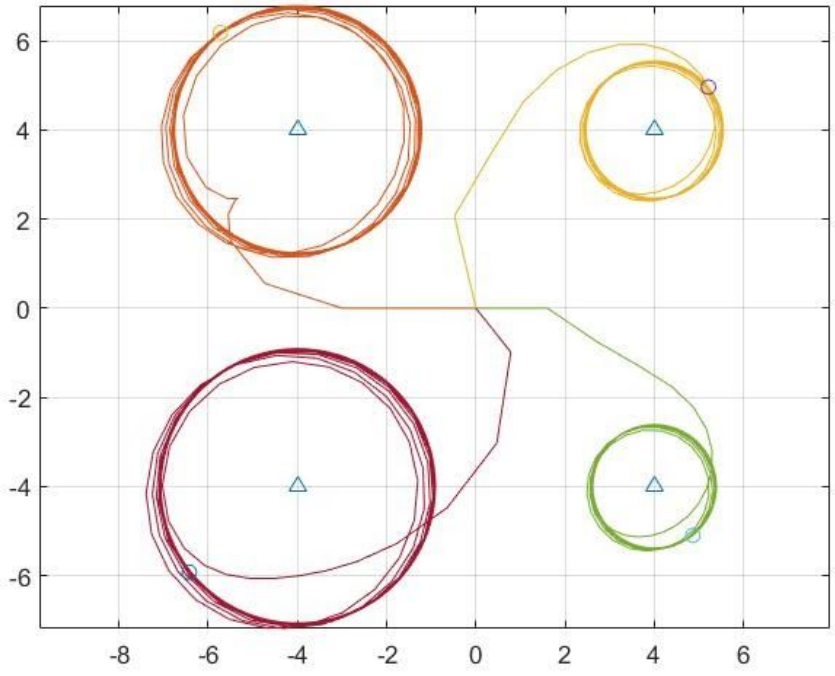


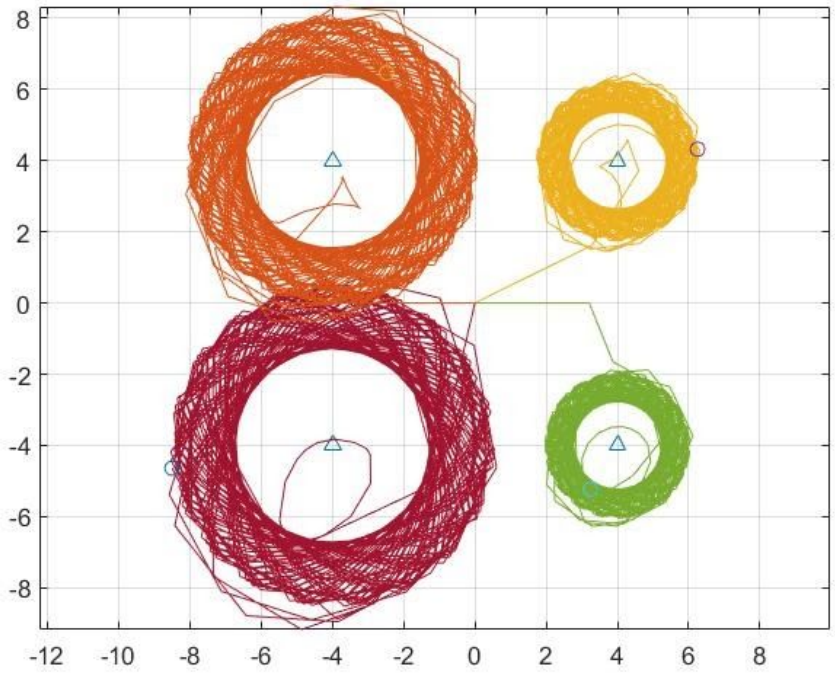
Scenario 2: Plot for moving Targets using ode45 solver and euler method respectively ;





Scenario 3: Plot for stationary Targets with undetected targets in vehicles - 1,3,5,7 using ode45 solver and euler method respectively ;





Scenario 4: Plot for moving Targets with undetected targets in vehicles - 1,3,5,7 using ode45 solver and euler method respectively ;