```
1 % Leslie matrix for customers in A, B and C
2
3 L = [0.70 \ 0.80 \ 0.00]
       0.25 0.10 0.00;
4
5
       0.05 0.10 1.00];
6
7 check = sum(L); % should equal one for each column
9 N = 50;
10
11 % adding in a matrix for the results
13 \text{ results} = zeros(N+1,5);
14 X = [40000 \ 40000 \ 20000]';
15
16 \text{ TotalPop} = \text{sum}(X);
17
18 \text{ results}(1,:) = [0 \text{ X' sum}(X)];
19 disp([0 X' sum(X)]);
20
21
22 \text{ for } i = 1:N
23
      X = L*X;
      results(i+1,:) = [i X' sum(X)];
24
      disp([i X' sum(X)]);
25
26 end
27
28
29 prop_res = results(:,1:4);
30 prop_res(:,2:4) = prop_res(:,2:4)/TotalPop;
31
32
33 plot(prop_res(:,1),prop_res(:,2:4));
34 legend('A','B','C');
35
36
```