clc;

clear all;

close all;

k = input('Enter the amount of scaling: ');

% plot of x[n]

n = -3:1:3;

x = [0 2 2 2 2 2 0];

subplot(311)

stem(n,x)

axis([-7 7 0 3])

title('x[n]');

% plot of x[n]/k

n1 = -3/k:1/k:3/k

subplot(312)

stem(n1,x)

axis([-7 7 0 3])

title('2x[n]')

% plot of kx[n]

n2 = -3\*k:1\*k:3\*k;

subplot(313)

stem(n2,x)

title('x[n]/2')

axis([-7 7 0 3])