

```

xn = input('Enter the first sequence x(n) = ');
hn = input('Enter the second sequence h(n) = ');

L = length(xn);
M = length(hn);
N = L+M-1;

yn1 = conv(xn,hn);
yn2 = cconv(xn,hn,max(L,M));
yn3 = cconv(xn,hn,N);

n = 0:1:N-1;
subplot(3,1,1);
stem(n,yn1);
xlabel('Time');
ylabel('Amplitude');
title('Linear Convolution');

subplot(3,1,2);
n1 = 0:1:max(L,M)-1;
stem(n1, yn2);
xlabel('Time');
ylabel('Amplitude');
title('Circular Convolution Without 0 padding');

subplot(3,1,3);
stem(n, yn3);
xlabel('Time');
ylabel('Amplitude');
title('Circular Convolution With 0 padding');

```

