Fs=100;

dt=1/Fs;

stoptime=1;

t=(0:dt:stoptime-dt)';

N=size(t,1);

fc=12;

x=cos(2\*pi\*fc\*t)

X=fftshift(fft(x,N));

df=Fs/N;

f=-Fs/2:df:((Fs/2)-1);

figure;

plot(t,x);

xlabel('time');

ylabel('amplitude');

figure;

stem(t,x);

figure;

plot(f,abs(X)/N);

xlabel('frequency');

ylabel('magnitude');







Exp 2 circconv time

Enter the first sequence [1 2 2 1]

Enter the second sequence [1 3 2 1]

Output sequence of circular convolution

y =

10 9 11 12



Ex

Enter the first sequence [1 2 1 2]

Enter the second sequence [2 3 4 5]

Output sequence of circular convolution

y =

22 20 22 20

