

```

%idft using direct
x=input('enter i/p seq in square bracket')
x=ifft(x)
subplot(2,1,1)
stem(abs(x))
subplot(2,1,2)
stem(angle(x))

%idft without using direct function
x=input('enter i/p sequence in square bracket')
N=length(x);
k=0:1:N-1;
n=0:1:N-1;
Wn=exp(2*pi*i/N);
nk=n'*k;
Wnk=Wn.^nk;
x=(x*Wnk)/N;
subplot(2,1,1)
stem(abs(x))
disp(x);
title'amplitude'
subplot(2,1,2)
stem(angle(x))
title'phase'

```