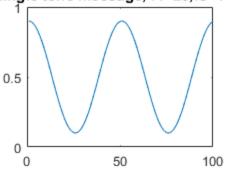
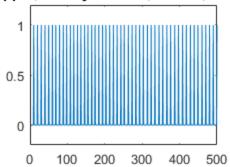
```
%group1
%J. Premchand-1704048
%Harshit-1704047
%S.S Shanmukkha-1704049
%Sumit -1704050
%PAM signal
clc,clear,close all;
fc=100; % Carrier frequency
fs=1000; % Sampling frequency
f1=20; % Single tone modulation
t=0:1/fs:((2/f1)-(1/fs));
x1=0.4*cos(2*pi*f1*t)+0.5; %single tone message to be [0,1]
y1=modulate(x1,fc,fs,'ppm');
subplot(2,2,1);
plot(x1);
title(' single tone message, f1=20,fs=1000');
subplot(2,2,2);
plot(y1);
axis([0 500 -0.2 1.2]);
title('ppm, one cycle of f1, fc=100,f1=20');
x1_recov=demod(y1,fc,fs,'ppm');
subplot(2,2,3);
plot(x1_recov);
title('time domain recovered, single tone, f1=20');
```

single tone message, f1=20,fs=1000ppm, one cycle of f1, fc=100,f1=20





time domain recovered, single tone, f1=20

