clc;

clear all;

F=10;

Fs=20;

n=0:0.0005:2/F;

x1=sin(2\*pi\*F\*n+pi/6);

plot(n,x1)

hold on

Ts=0:(1/Fs):2/F;

x\_s=sin(2\*pi\*F\*Ts+(pi/6));

stem(Ts,x\_s);

hold on

axis tight

n\_new=0:0.0045:.2

x\_new= interp1(n,x1,n\_new)

plot(n\_new,x\_new,'r')

axis tight

