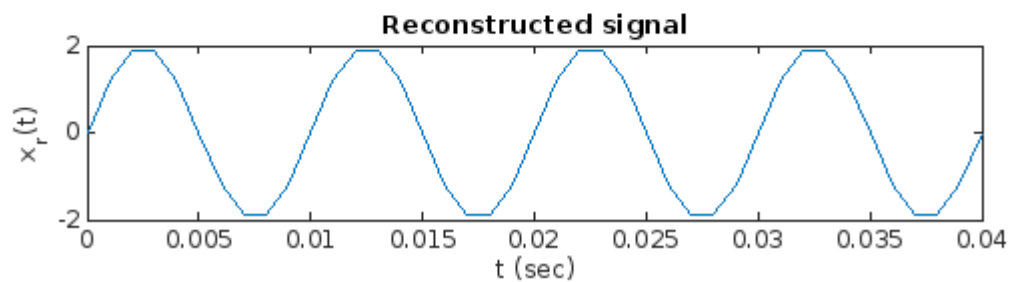

```
%SHOBHIT TYAGI 22103210 B7
%Reconstruction
x_recon=0; %initialising reconstructed signal
for k=0:length(x_samples)-1
    l=k:-1:-(length(t)-1)+k; %taking ns number of past and future samples
    x_recon=x_recon+x_samples(k+1)*sinc(l); %reconstruction using interpolation
end
subplot(3,1,3); %Plotting the reconstructed signal
plot(t,x_recon);
title('Reconstructed signal')
xlabel('t (sec)');
ylabel('x_r(t)');
```



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