clear all;

close all;

clc;

cutOffFreq=1000;

filterOrder=5;

[x,fs]=audioread('The Chainsmokers Coldplay - Something Just Like This Lyric.mp3');

[b, a]=butter(filterOrder, cutOffFreq/ (fs/2), 'low');

%x=x(60\*fs/10:90\*fs/10);

y=filter(b, a, x);

audiowrite('The Chainsmokers Coldplay - Something Just Like This Lyric (1).wav',x, fs);

audiowrite(sprintf('The Chainsmokers Coldplay - Something Just Like This Lyric (1).wav',cutOffFreq),y,fs);

time=(1:length(x))/fs;

subplot(2,1,1);

plot(time, x);

subplot(2,1,2);

plot(time, y);