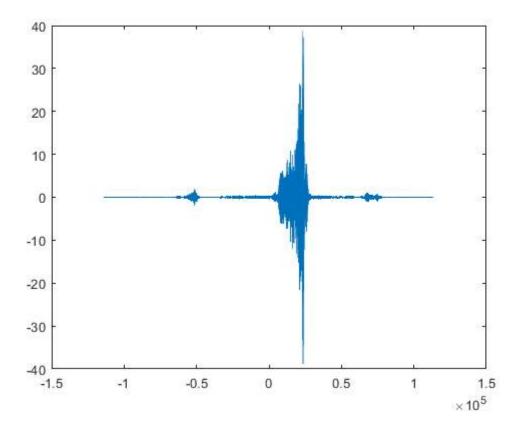
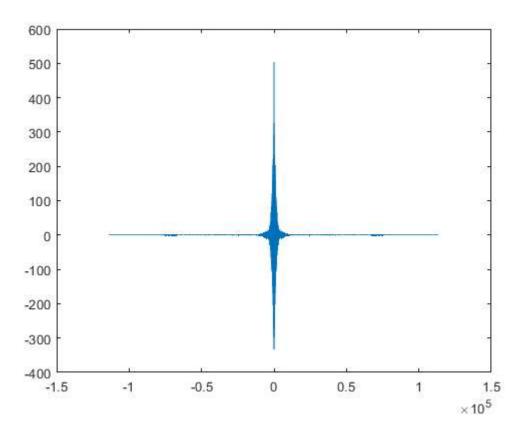
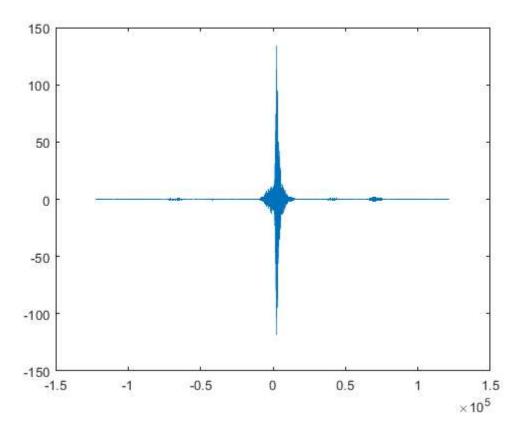
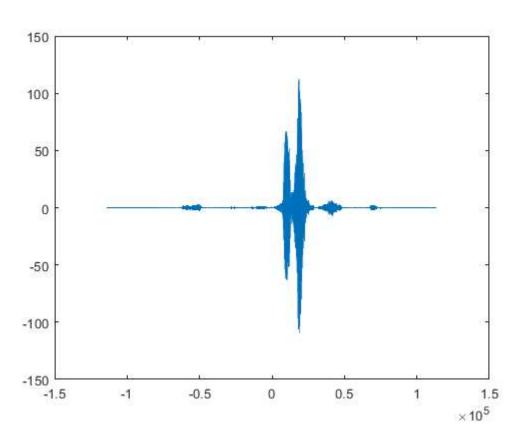
```
function speechrecognition(~)
    %Speech Recognition Using Correlation Method
    %Write Following Command On Command Window
   %speechrecognition('test.wav')
   voice = audioread('test.wav');
   x=voice;
   x=x';
   x=x(1,:);
   y1=audioread('one.wav');
   y1=y1';
   y1=y1(1,:);
   y1=y1';
    z1=xcorr(x,y1);
   m1=max(z1);
   l1=length(z1);
   t1=-((l1-1)/2):1:((l1-1)/2);
   t1=t1';
   %subplot(3,2,1);
   plot(t1,z1);
   y2=audioread('two.wav');
   y2=y2';
   y2=y2(1,:);
   y2=y2';
    z2=xcorr(x,y2);
   m2=max(z2);
   12=length(z2);
   t2=-((12-1)/2):1:((12-1)/2);
   t2=t2';
   %subplot(3,2,2);
   figure
   plot(t2,z2);
   y3=audioread('three.wav');
   y3=y3';
   y3=y3(1,:);
   y3=y3';
   z3=xcorr(x,y3);
   m3=max(z3);
   13=length(z3);
   t3=-((13-1)/2):1:((13-1)/2);
   t3=t3';
   %subplot(3,2,3);
   figure
   plot(t3,z3);
   y4=audioread('four.wav');
   y4=y4';
   y4=y4(1,:);
   y4=y4';
   z4=xcorr(x,y4);
   m4=max(z4);
   14=length(z4);
   t4=-((14-1)/2):1:((14-1)/2);
   t4=t4';
   %subplot(3,2,4);
   figure
   plot(t4,z4);
   y5=audioread('five.wav');
   y5=y5';
   y5=y5(1,:);
   y5=y5';
    z5=xcorr(x,y5);
```

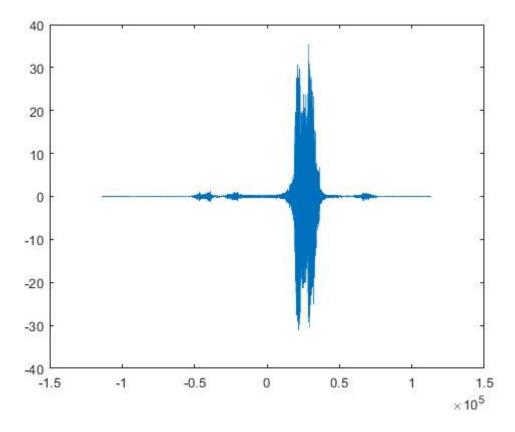
```
m5=max(z5);
15=length(z5);
t5=-((15-1)/2):1:((15-1)/2);
t5=t5';
%subplot(3,2,5);
figure
plot(t5,z5);
m6=300;
a=[m1 m2 m3 m4 m5 m6];
m=max(a);
h=audioread('allow.wav');
if m<=m1
    soundsc(audioread('one.wav'),50000)
        soundsc(h,50000)
elseif m<=m2</pre>
    soundsc(audioread('two.wav'),50000)
        soundsc(h,50000)
elseif m<=m3</pre>
    soundsc(audioread('three.wav'),50000)
        soundsc(h,50000)
elseif m<=m4</pre>
    soundsc(audioread('four.wav'),50000)
        soundsc(h,50000)
elseif m<m5</pre>
    soundsc(audioread('five.wav'),50000)
        soundsc(h,50000)
else
   soundsc(audioread('denied.wav'),50000)
end
```











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