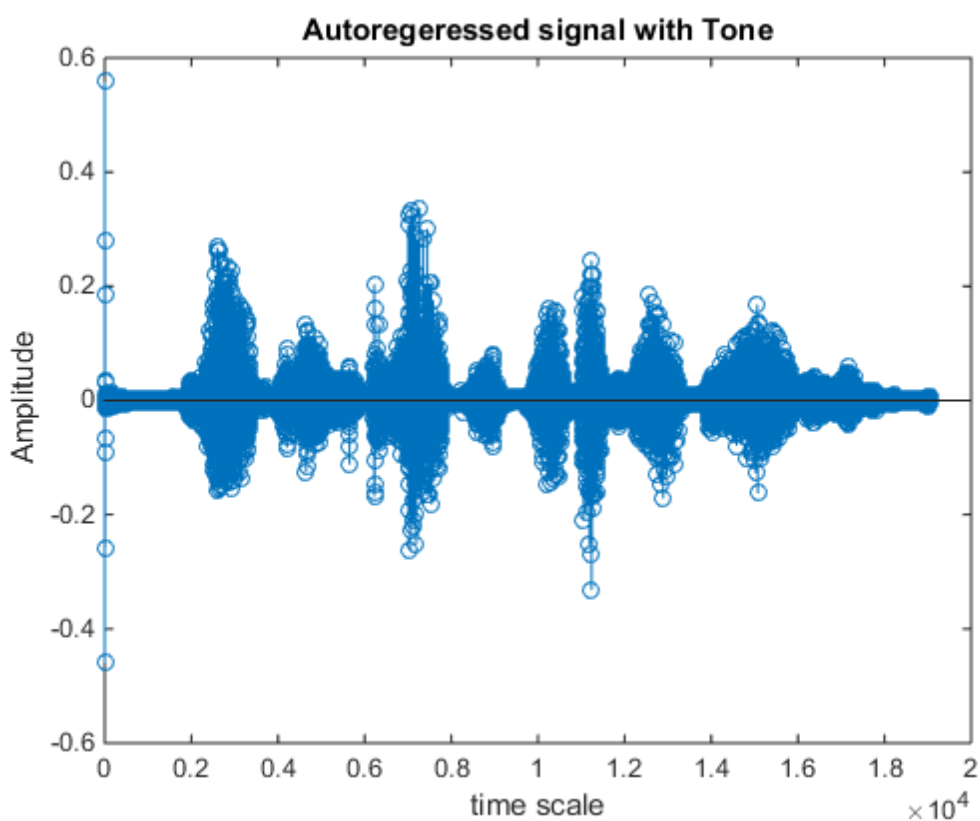


Part B

```
inputsignal=wavread('F:\Coll works\HOMEWORKS\Spring 17\DSP 2\Project 2\sample2_tone.wav');
%p=input('Enter the Order p'); %say 10
p=10;
a=aryule(inputsignal,p); %% Coefficients of the filter found using Yule-walker method
zz=filter(a,1,inputsignal); %%whitening filter using coefficients
figure();
stem(zz);
title('Autoregeressed signal with Tone');
ylabel('Amplitude');
xlabel('time scale');
```

Warning: WAVREAD will be removed in a future release. Use AUDIOREAD instead.



After the auto regression model
and filtering(whitening)

Figure 7