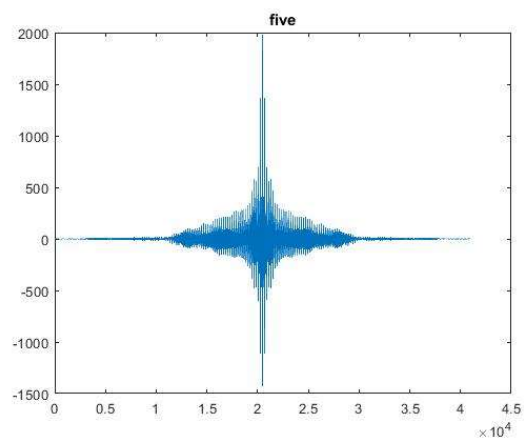
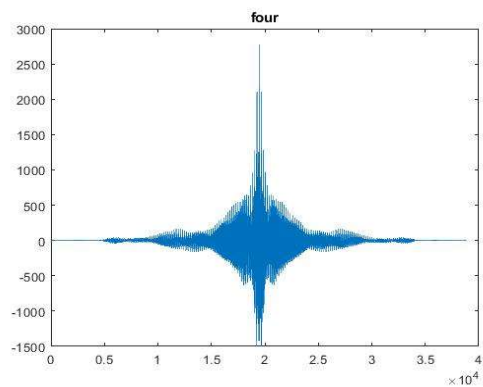
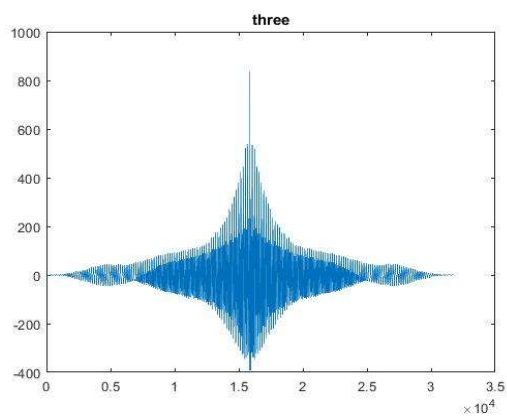
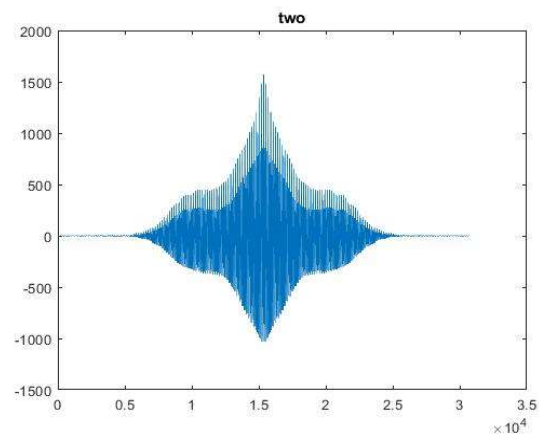
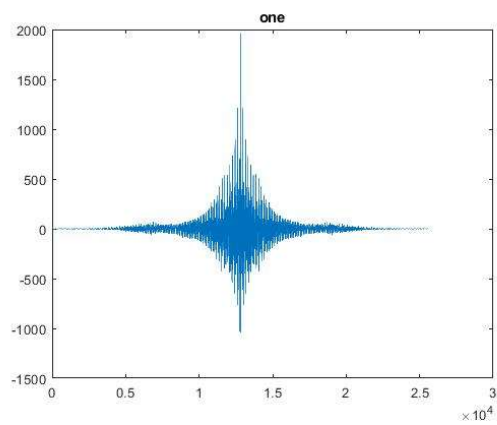


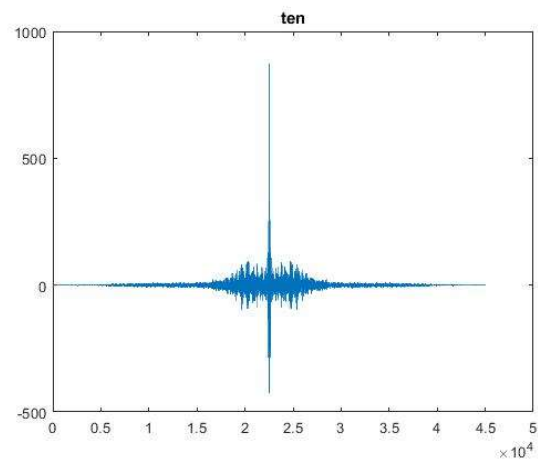
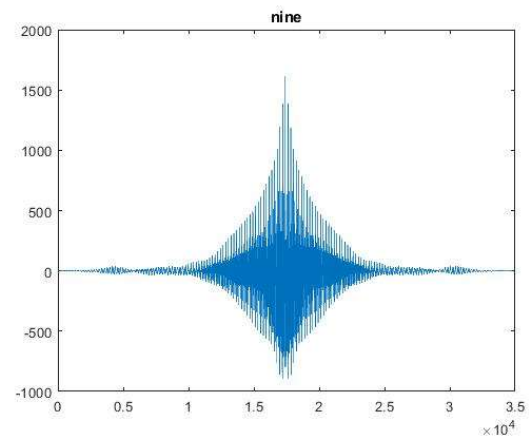
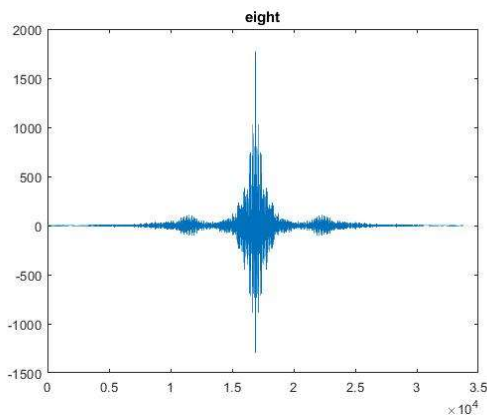
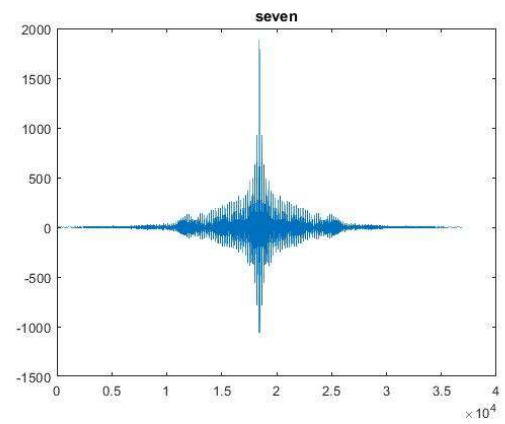
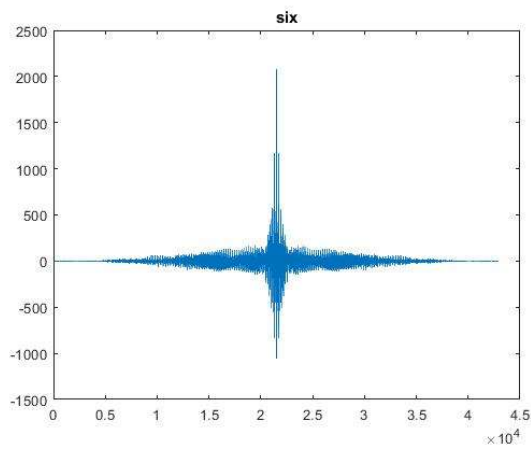
Pitch Estimation

Prepared by
Tasnim Nishat Islam
170692

ACORN: Only the signals



XCORR: Only the signals

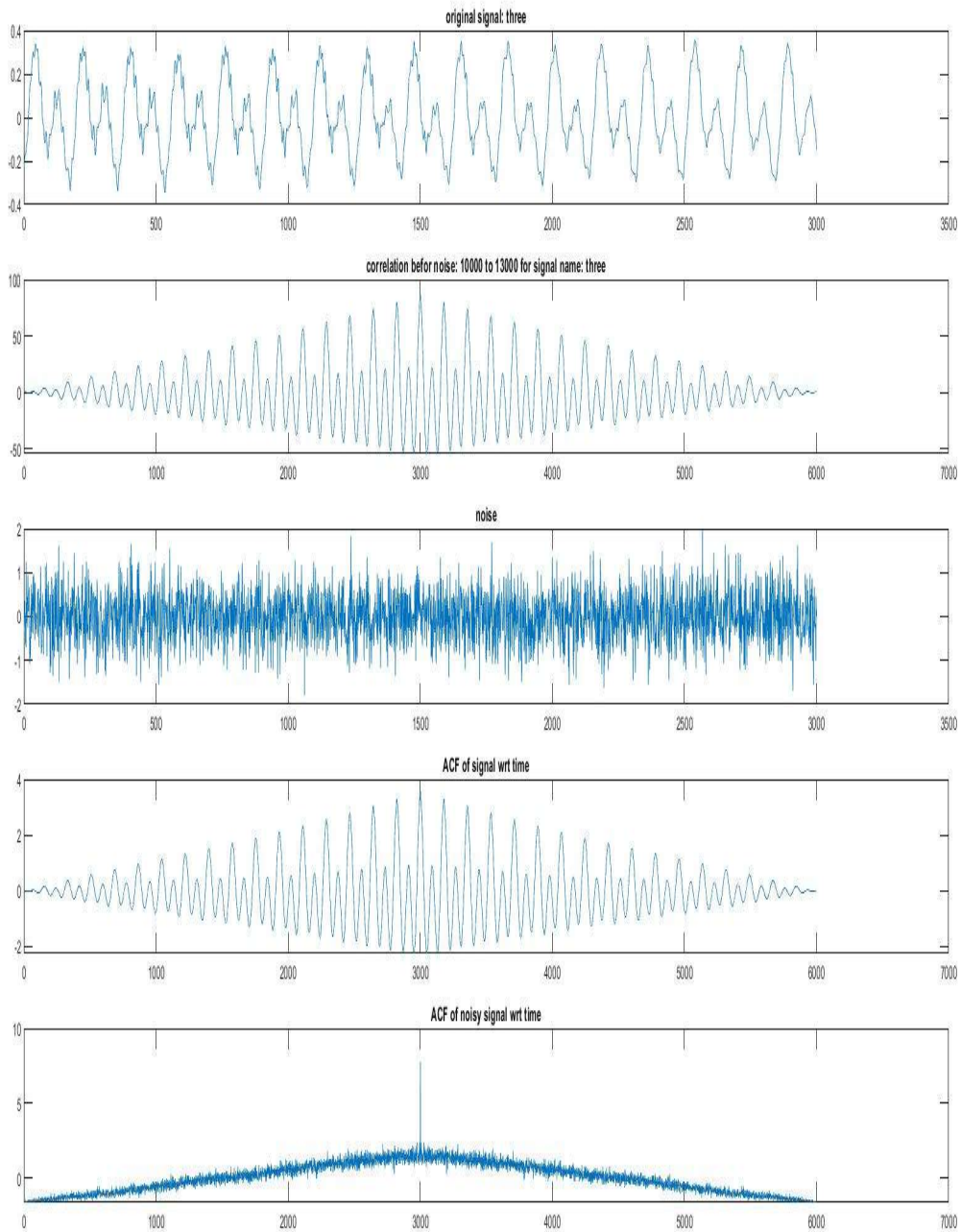


Pitch estimation

1706092

Number	Pitch
One	196
Two	207
Three	204
Four	196
Five	203
Six	198
Seven	206
Eight	208
Nine	206
Ten	64

ACF plot for three

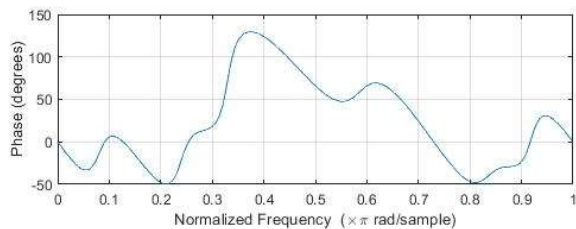
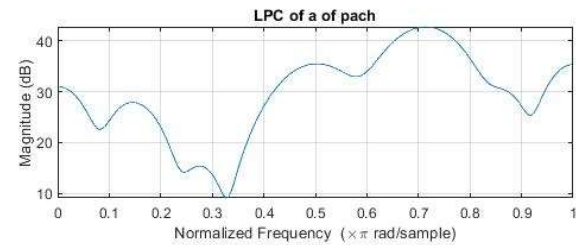
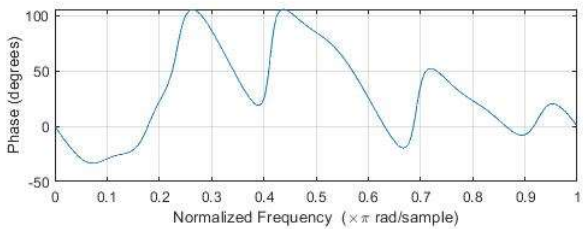
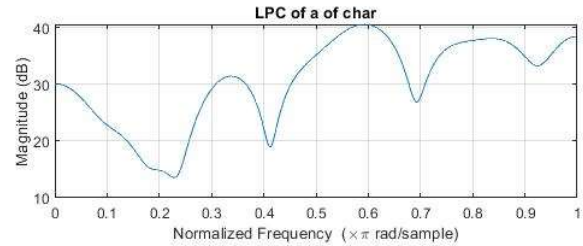
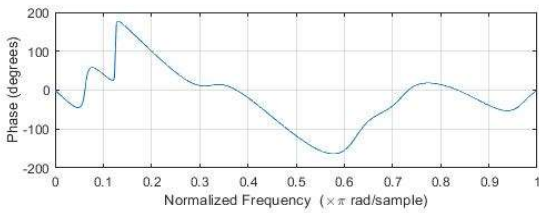
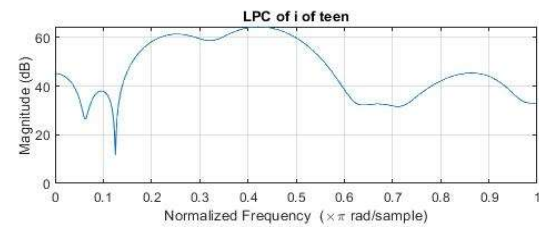
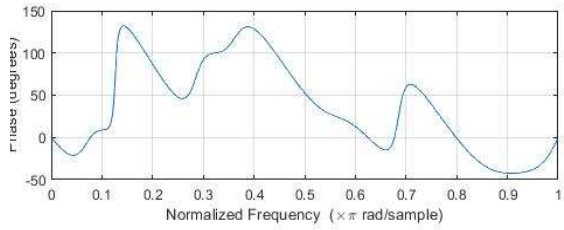
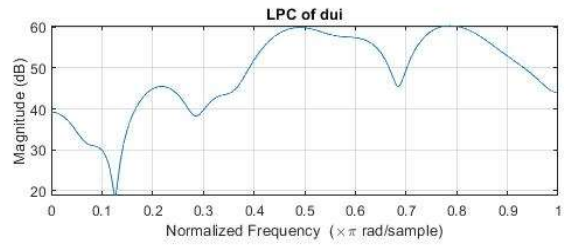
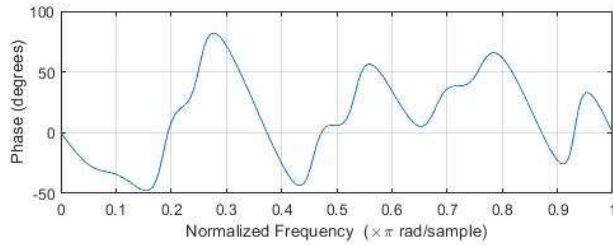
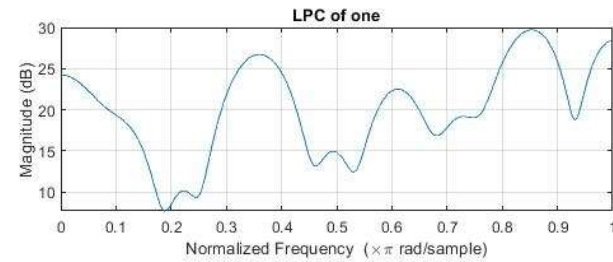


Length of vowel: LPC analysis

*all signals are resampled to 8000HZ

Word	Vowel	Frequency		
		F1	F2	F3
One	/ae/	0.36138 = 460	0.6054 = 770	0.849 = 1080
Two	/ui/	0.207 = 263	0.496 = 631.5	0.806 = 1026
Three	/i/	0.09 = 114.5880	0.19= 241.908	0.39=396.5 480
Four	/a/	0.30=382.0	0.609=7 75	0.83=1056
Five	/a/	0.15=190.9 8	0.27=34 3.674	0.5019=63 9.0191
Six	/oy/	0.28=356.4 960	0.45=57 2.9400	0.7089=90 2.5715
Seven	/a/	0.13=165.5 160	0.326=4 15.0632	0.468=595. 8576
Eight	/a/	0.13=165.5 160	0.34=43 2.880	0.488=621. 3216
Nine	/oy/	0.144=183. 3408	0.26=33 1.0320	0.39=496.5 480
Ten	/o/	0.2539=32 3.3	0.449=5 71.7	0.826=105 1.7

FRETZ CURVE



FRETZ CURVE

