**Speech Compression**

clc

clear all

close all

Mu=20;

y = wavread('C:\Users\djsce.student\Desktop\e2-e dce\welcome.wav');

v=max(max(y));

for i=1:3730

y1(i,1)=y(i,1);

end

plot(y)

title('original')

p=(-v):0.005:v;

c=(-(v+0.005)):0.005:v;

[m,n]=quantiz(y1,p,c);

figure(2);

plot(n)

title('quantizied')

cinput= compand(y1,Mu,v,'mu/compressor');

figure(3);

plot(cinput)

title('compressed')

[m1,n1]=quantiz(cinput,p,c);

out= compand(n1,Mu,v,'mu/expander');

figure(4);

plot(out)

title('expanded')

e1=mse(n,y1)

e2=mse(out,y1)

Output:

e1 =

0.0413

e2 =

0.0412