





## Attention!

You have the following programs that must be solved and admitted at the determined time.



1-Write a MATLAB code that prompt the user to enter the frame number and calculate number of zero crossings, zerocrossingrate and level crossing rate of the inputted frame.

Note: analyze this on your recorded voice.





2-Quantize the following sequence of data,

3 10 4 -1 3 -7 -10 6 8 -1 2 -1 -8 10 8 -7

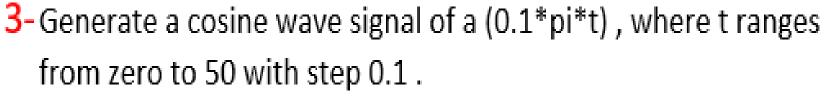
Calculate number of zerocrossings, zerocrossingrate and level crossing rate.

Use matlab program to build the code, finally calculate the error.

Note: you must build the code with two ways.







Digitize it showing this with matlab. Calculate number of zerocrossings, zerocrossingrate and level crossing rate.

Note: plot the original signal, quantized signal, and both of them on a separated figure on the same window.



## Thank you





Deadline.:26 &29.all in his section date.

No Exceptions.

With my best wishes

**Eng.Ghada Gamal**