

A circular wreath of various botanical illustrations surrounds a central white circle. The plants include green ferns, red maple-like leaves, yellow flowers, purple flowers, and large green leaves. The central circle contains the text 'Task.' and 'Eng.Ghada Gamal' separated by a horizontal line.

Task.

Eng.Ghada Gamal



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.

”



“

3- Generate a cosine wave signal of $a \cos(0.1\pi t)$, where t ranges from zero to 50 with step 0.1 .

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.

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Thank you



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

No Exceptions.

With my best wishes

Eng.Ghada Gamal