

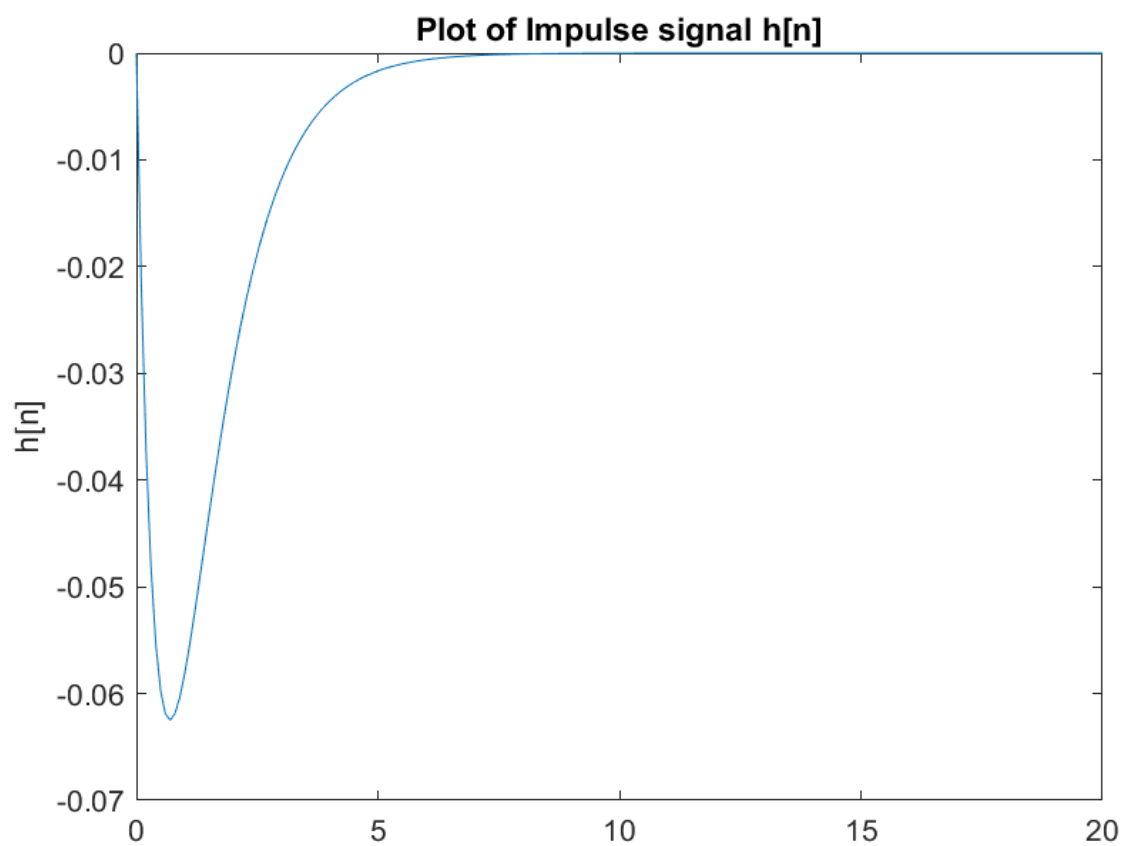
ASSIGNMENT-2

Aakarsh Jain

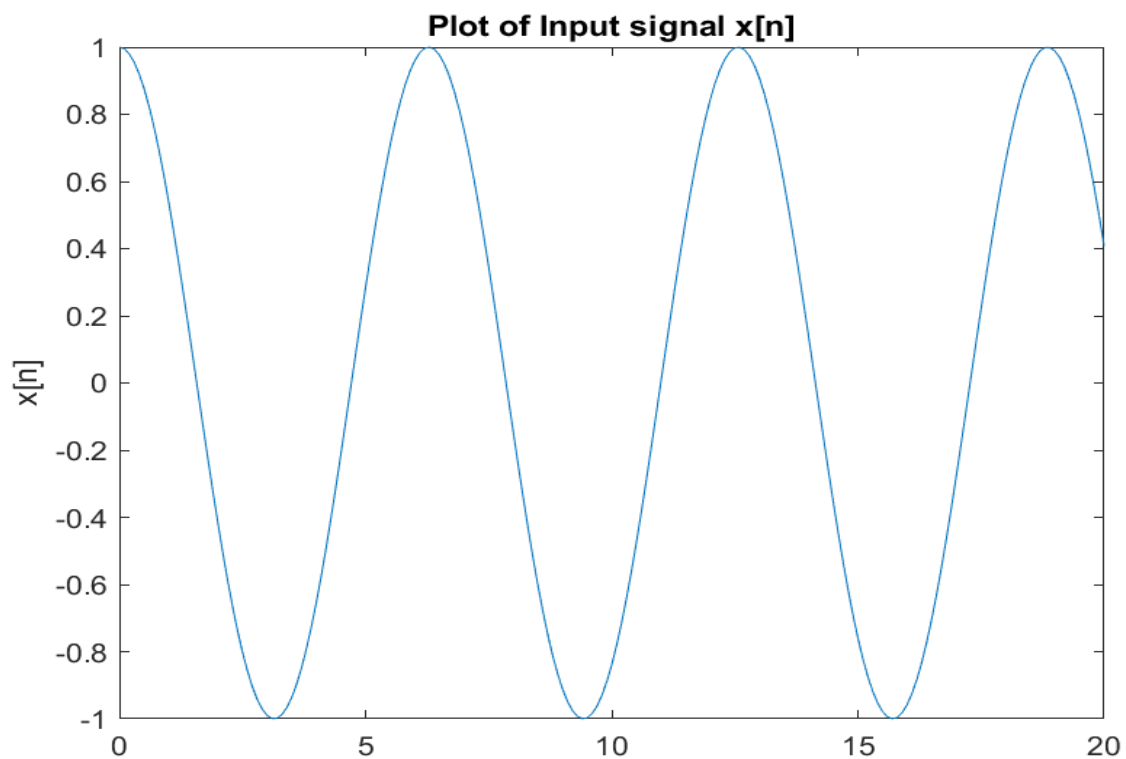
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Question - 1

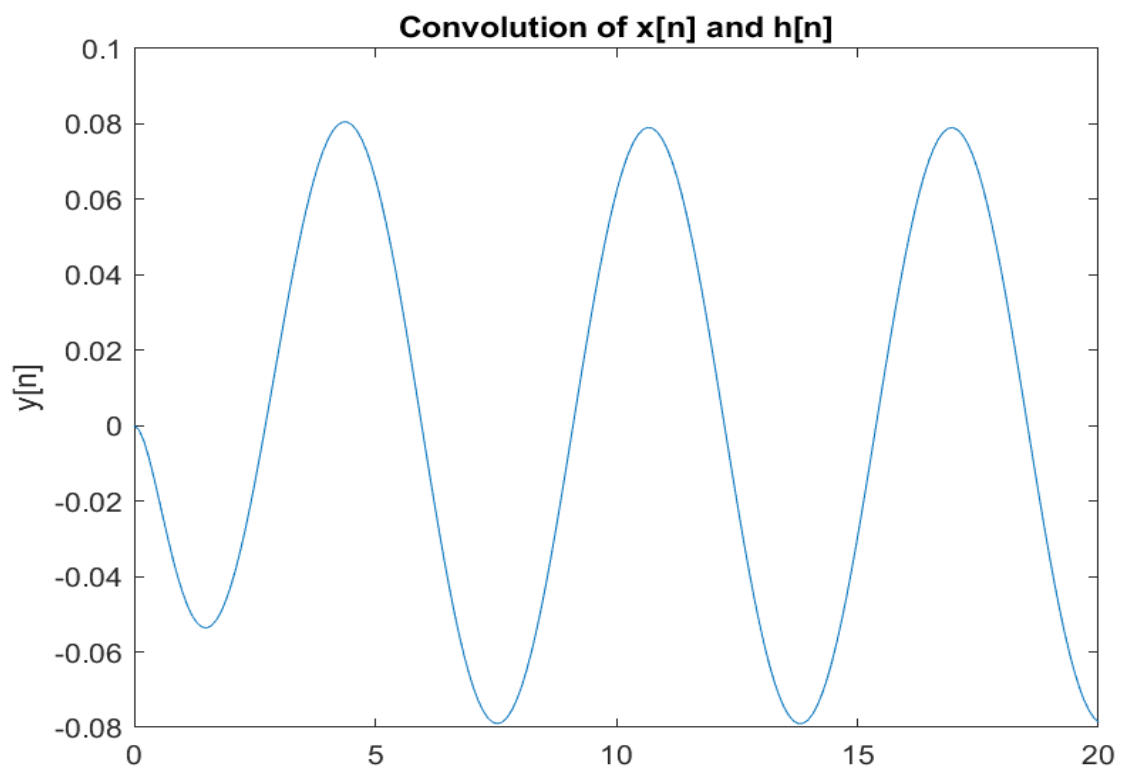
(a) The graph generated for $h[n]$ is as follows:-



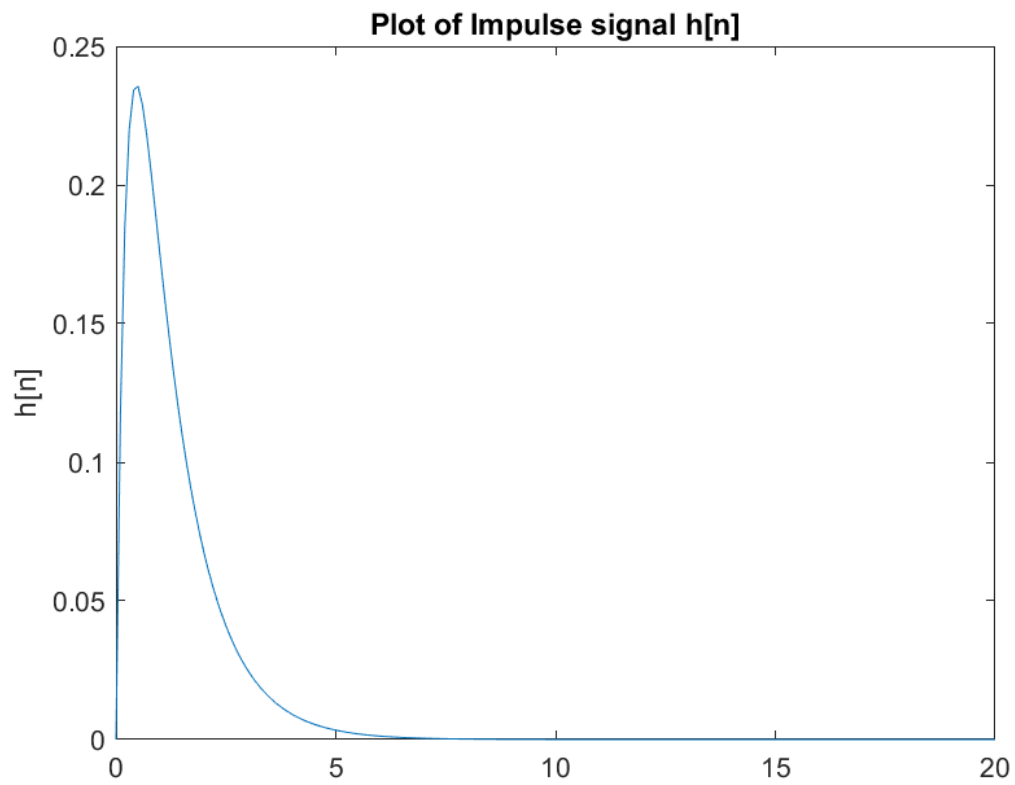
The graph generated for $x[n]$ is as follows:-



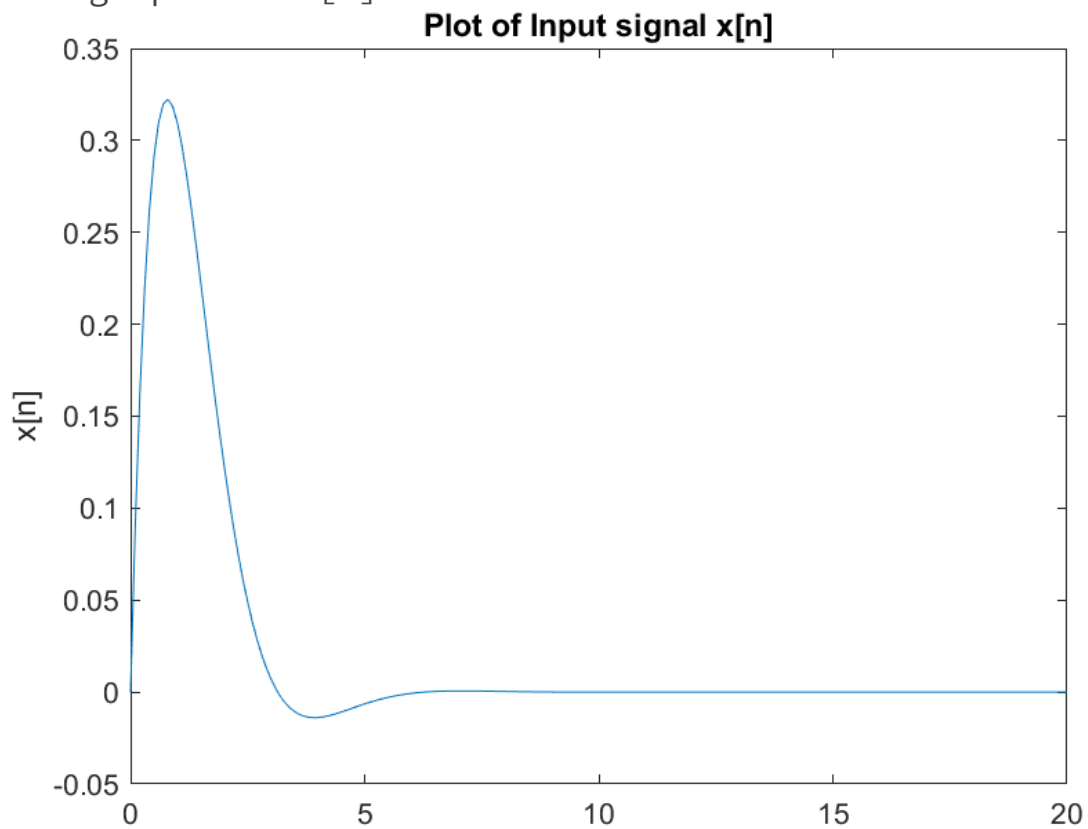
The final graph generated by convolving the 2 signals is:-



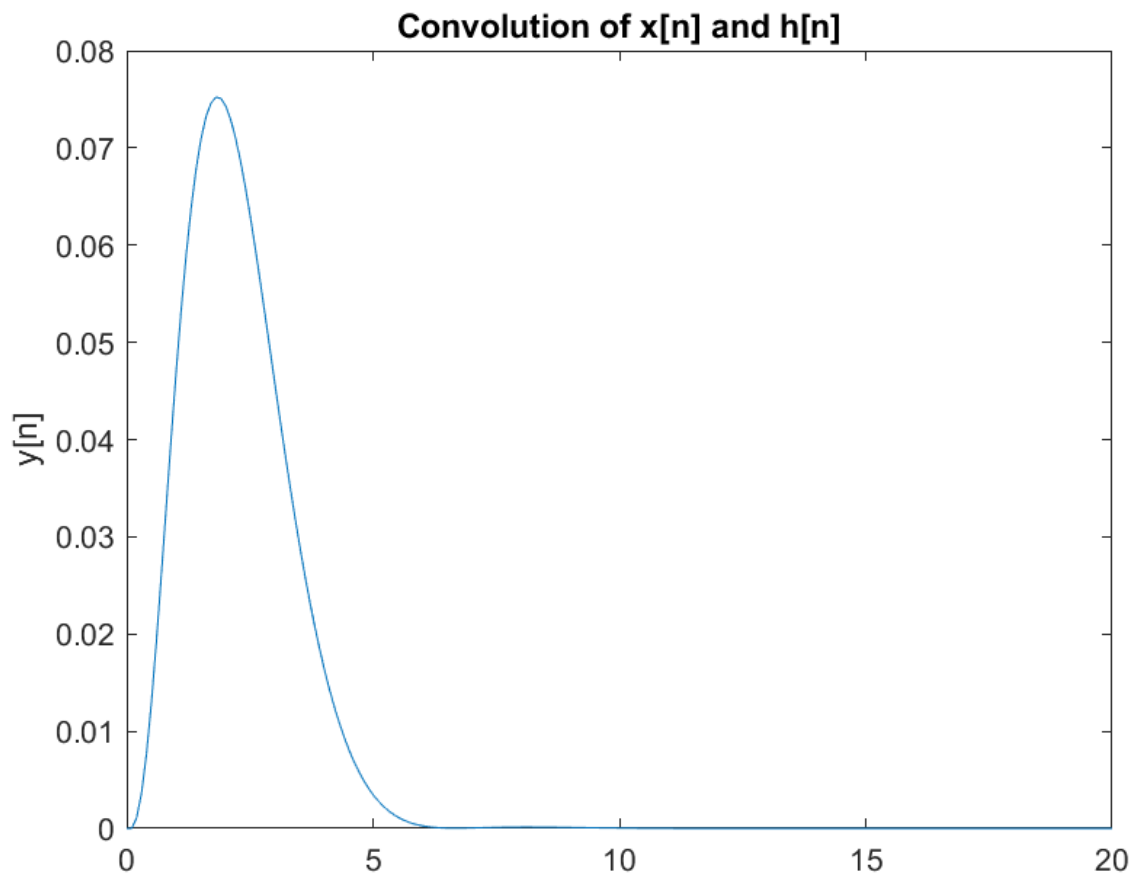
(b) The graph generated for $h[n]$ is as follows:-



The graph for $x[n]$ is as follows:-



The final graph upon convolving the 2 signals is:-



Code execution:

I have written all the functions used to modify signals, i.e. u, x and h, in separate .m files. The a.m and b.m files are supposed to use these functions and calculate the convolution and plot the required graphs. Hence, all the files should be in the current working directory during execution and only main.m needs to be executed.