



INDRAPRASTHA INSTITUTE *of*  
INFORMATION TECHNOLOGY  
DELHI

Department  
of  
Electronics & Communication Engineering

ECE250| Signals and Systems  
Section: A

**Prof. Anubha Gupta**

Assignment-2 Coding Output

Student Name- Arnav Singh  
Roll No.- 2021019  
Date: 02/10/2022

I created an array `t=0:0.1:20;`

After that I created two arrays `n` and `h` (for both questions), both of the same size as `t` using functions including `sin` and `exp`.

I took inspiration from

<https://in.mathworks.com/matlabcentral/answers/420594-how-to-calculate-the-convolution-of-two-signal-without-using-conv>

All I have to do, is to take two loops, and for each value of `i`, I have to add products of `x` and `h` such that it doesn't exceed the value of the index.

I could have used alternate methods of convolution but i wasn't able to understand them as well, `conv` was another alternative, but the instructor prohibited us from using it

Upon Calculating the same, I used 'subplot' to create 3 sub plots and used the plot function to further `x`, `h` and `y` in those spaces, I have attached a screenshot of the graph for your perusal.

