```matlab
%Assignment 1
% Done by Mahmoud Yassin Mahmoud
% ID: 202113650
% Submitted To Dr. Wail A. Mousa
% Bism Allah and I will start with
%(Q1c):
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
clc;
clear;
%...................   ............................
%defining time axis
n1a = -10:-1;
n1b = 0:19;
n1c = 20:40;
n1 = [n1a n1b n1c];
n2 = 0:50;
n = -10:90;
%.......................................
% convoluation calculation
h = 0.9.^n2;

x  = h;
y = conv(x,h);
%...........................................
%ploting
subplot(221)
stem(n2,x)
    grid minor
    title(['x(n) = h(n)'])
    xlabel('-10< n < 40')
    ylabel('x(n)')

subplot(222)
stem(n2,h)

    title('h(n) = 0.9^n ');
    grid minor
    xlabel('0< n < 50')
    ylabel('h(n)')

subplot(223)
stem(n,y)
    grid minor
    title('y(n) = x(n) * h(n)');
    xlabel('-10< n < 90')
    ylabel('y(n)')

 sgtitle('Convoluation between x(n) and h(n) to get y(n)') % title for the hole figure
```
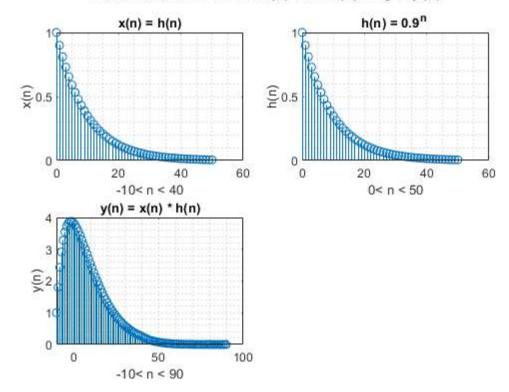
Convoluation between x(n) and h(n) to get y(n)

x(n) = h(n)

(plot of $x(n)$ versus n, axis $-10 < n < 40$, decaying exponential)

h(n) = 0.9^n

(plot of $h(n)$ versus n, axis $0 < n < 50$, decaying exponential)

y(n) = x(n) * h(n)

(plot of $y(n)$ versus n, axis $-10 < n < 90$, peak near 4)