## Post Session work:

- 1. Compute the convolution y[n] of the signals
- a.  $x[n] = a^n \text{ for } -3 < n < 5n \text{ (Choose any value of } a > 1 \text{ )}$

0 otherwise

h[n] = 1 for for 0 < n < 4

0 otherwise

b. x[n] = (1/3)n for 0 < n < 6

0 otherwise

h[n] = 1 for for -2 < n < 2

0 otherwise

Verify them using the Scilab code provided.

2. When does convolution of a sequence x[n] with a sequence h[n] result in the output y[n] = x[n]? Give example of such a sequence and plot it using Scilab.

## References:

Link to a tutorial to understand the concept of convolution better.

http://www.jhu.edu/signals/convolve/index.html

http://www.jhu.edu/signals/discreteconv2/index.html