Notebook Screen Capture

Create Two Step Sequences

The module ssd (file ssd.py) contains the function ssd.dstep (n) which produces a step function output using the index vector n as the input that turns on at n = 0. If you input n-5 the step will now turn on at n=5.

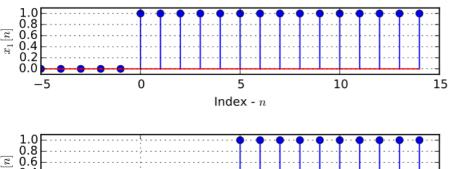
Plot Waveforms using the Stem function

Create a 3x1 array subplots. The first two contain $x_1[n] = u[n]$ and $x_2[n] = u[n-5]$ respectively. The third plot is the difference of the first minus the second, i.e., $x_1[n] - x_2[n] = u[n] - u[n-5]$,

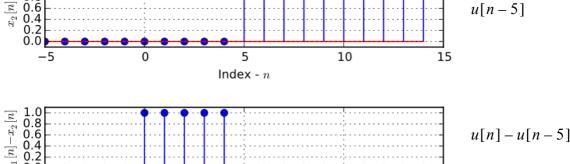
figure (figsize=(6, 1.0)) stem(n, x1) grid() axis([-5, 15, -.1, 1.1])xlabel(r'Index - \$n\$') ylabel(r'\$x 1[n]\$')(...Repeat for two more plots)

which should be a rectangular pulse of duration five samples starting at n=0.

-5



u[n]



As expected you see in plot 3 a pulse sequence of five samples starting at n=0.

5

Index - n

10

15

0