**Assignment 3**

1. Please use one example (all ‘1’ sequence) to show how to scramble and de-scramble a sequence in IEEE802.11.
2. Please show the detection procedure of STBC with NSTS=4 and NSS=2. Please verify the detection performance by Matlab simulation. You should randomly generate channel for at least 10000 times at each SNR level respectively, and show the detection error probability versus SNR.