Homework #4 (Computer simulation using MATLAB)

Write a computer program to simulate a baseband transmission system including transmitter , AWGN channel and receiver.

The system should include :

. Random binary sequence as input

.error correcting code, e.g. (2,1,2) convolutional code

. Pulse-shaping filter

. OFDM with QAM modulation

The report (including some simulation result) should not exceed 10 pages (A4 paper)