```
%set parameters
   fs = 8000; %8000 samples per second for DAC and ADC
   fc = 1000;%carrier frequency at 2000 Hz
   N = 51; %oversampling factor (samples per symbol interval)
   pulse = srrc(3, 0.5, N);%pulse waveform; see srrc.m from course webpage

%define symbols
   symbols = [1, -1, -1, 1, 1, 1]; %simple example with six symbols

%list of symbols
        x = symbols;
%symbol period of N samples
        x_up = reshape([x;zeros(N-1,length(x))],1,N*length(x));
%convolve symbols with pulse shape
        trans = conv(x_up,pulse);
% sample index (time)
        n=[0:length(trans)-1];
% upcovert to carrier frequency
        trans_mod = real(exp(j*2*pi*fc*n/fs).*trans);

%look at the pulse and baseband and transmit waveform
   figure;plottf(pulse,1/fs);%see plottf.m from course webpage
   grid on;
   figure;plottf(trans,1/fs);%baseband
   figure;plottf(trans_mod,1/fs);%bandpass

%listen to the bandpass waveform
   sound(trans_mod,fs);
```