Convolution

clc;

clear all;

pkg load communications;

k=input('input constraint length : '); %Enter the length of the constraint

g=input('enter coefficients of generator paths : ');

msg=input('enter message : ');

t=poly2trellis(k,g);

chcode=convenc(msg,t)

disp('encoded sequence is : ')

disp(chcode);

%addition of random error

err=randerr(1,length(chcode),2);

disp('error pattern is : ');

disp(err)

rcode=rem(chcode+err,2)

disp('received sequence is : ')

disp(rcode);

Output

