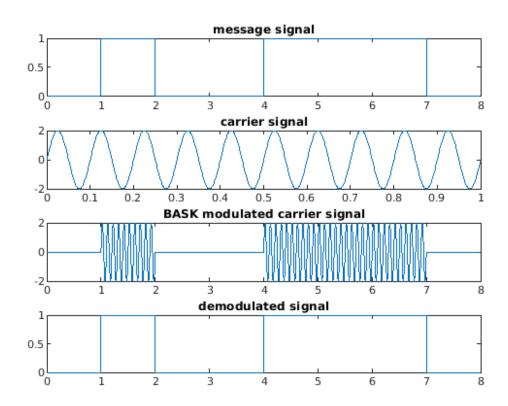
```
% Name:YOGESH
% Roll No:181EC155
% Binary Amplitude Shift Keying (BASK)
N=8; %message length
t=0:1/1000:1-0.001;
T=0:1/1000:8-0.001;
m = [0 1 0 0 1 1 1 0]
% Carrier signal
fc=10;
c=2*sin(2*pi*fc*t);
figure;
message_signal=[];
bask_signal=[];
demod_signal=[];
t1=0;
t2=1;
%Modulation------
for i=1:N
   if m(i) > 0.5
       m_s=ones(1,length(t));
   else
       m_s=zeros(1,length(t));
   end
   [message_signal]=[message_signal, m_s];
   [bask_signal] = [bask_signal, c.*m_s];
end
%plotting
subplot(4,1,1);
plot(T,message_signal);
title('message signal');
subplot(4,1,2);
plot(t,c);
title('carrier signal');
subplot(4,1,3);
plot(T, bask_signal);
title('BASK modulated carrier signal');
for i=1:N
   t1=(i-1)*length(t)+1;
   t2=i*length(t);
   x=sum(c.*bask_signal(:,t1:t2));
   if x>0
```



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