```
%% task 182
clear;
clc;
% Initialise variables
fs = 8000;
L = 86;
fcent = [697;770;852;941;1209;1336;1477;1633];
% Dial tones
a = dtmfdial(['1','2','3','4', '5', '6', '7', '8', '9', '0']);
% Cut up signal
[nstart,nstop] = dtmfcut(a,fs);
k = 1;
% get bpf signals
[bb, H, W] = dtmfdesign(fcent, L, fs);
% get the frequencies of the dial tones
for i = 1:size(nstart, 2)
    freq section = a(nstart(i):nstop(i));
    sc = dtmfscore(freq_section, bb);
    freq components(:,i) = nonzeros(sc .* fcent);
end
```