

Template for the function mfcc.m

```
function c = mfcc(s, fs)

% MFCC Calculate the mel frequency cepstrum coefficients (MFCC) of a signal

%

% Inputs:

%      s      : speech signal

%      fs      : sample rate in Hz

%

% Outputs:

%      c      : MFCC output, each column contains the MFCC's for one speech frame
```

Notes:

The mel-frequency cepstrum coefficients is defined as the result of **the DCT on the log of mel-spectrum**. In addition we often exclude the *zero-order* cepstral coefficients. So the end part of the mfcc program would looks like:

```
% All previous steps...

% Obtain the mel-spectrum in the variable: ms

% Last step, compute mel-frequency cepstrum coefficients

c = dct(log(ms));

c(1,:) = [];    % exclude 0'th order cepstral coefficient
```