1. There's a comand in matlab called wavrecord to record from the mic input  
   X=wavrecord(N,FS,CH)  
   Where,   
   CH:Number of channels, means mono or stereo  
   FS:Sampling rate to get samples  
   N:Number of samples to record then it stops.  
   If N=10\*FS, then matlab will record 10 seconds.  
   and X is a row vector of the recorded samples.  
   u can playback the vector X by the comand wavplay  
   wavplay(X, FS)  
     
   Hope that's useful

% Get data from the windows sound card (microphone) and

% display the frequency spectrum continuously.

% To run this demo:

% 1- Start --> Press "F5" to start

% 2- Work --> Whistle into the microphone

% 3- Stop --> Press "Ctrl+c" iside the MATLAB Command Window

%

% This is based on the MATLAB example "Acquiring Data with

% a Sound Card" of the "Data Acquisition Toolbox 2.10"

%

% Works on MATLAB v7.1.0.246(R14) with Data Acq. Toolbox v2.7

%

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%%% User Parameters

duration = 1 % How many seconds of acquisition per plot refresh?

Fs = 8000 % Acquisition sample rate in Hz (try 8000)

% -------------------------------------------------------

%%% Initialization & configuration of sound card

AI = analoginput('winsound');

addchannel(AI, 1);

set (AI, 'SampleRate', Fs);

set(AI, 'SamplesPerTrigger', duration\*Fs);

%%% Loop to get data and display it

% this "try" helps the program end

% properly when "ctr+c" is hit

try

count = 0; % count how many time the while was executed

while 1

% increment loop counter

count = count +1;

% calculate elapsed time

ET = duration \* count;

% start acquisition and retrieve data

start(AI);

data = getdata(AI);

% Results: udate a FFT magnitude plot

xfft = abs(fft(data));

mag = 20\*log10(xfft); % Convert to dB

mag = mag(1:end/2); % duscard the redundant half

figure(1010), plot([1:length(mag)]./duration,mag)

title(['FFT Magnitude ; Seconds Elapsed = ' num2str(ET) ])

xlabel('Hz'), ylabel('dB'), grid on, axis([0 400 -60 60])

end

catch

disp('--> coninuous loop was manually interrupted')

end

%%% Termination

disp('--> Deleting Analog Input Object')

stop(AI)

delete(AI)