How to use TheFishSense Package

%% System Requirements

* This runs on matlab 2016b
* It doesn’t work on 2015 or 2013 versions of matlab
* Has not been tested on 2017+
* Designed for windows computers, but with a few modifications can run on mac
  + You need to change the type of slash (forward or backward) when dealing with the directories

%% Running the Detector

1. Set you current folder in matlab to the one that contains all the programs in TheFishSense package
2. Run TheFishSenseDetectorEvaluator
3. Follow the prompts
4. Once the program is done the output will be a big cell array that contains all of the information
   1. ChunkDuration- scalar (seconds) how many seconds of audio recording the detector is looking at, at a time
   2. Threshold- scalar multiplier. Multiplied by average noise level to set the threshold for what sets off the detector
   3. Interval – how much time is added before and after each peak that is detected. Affect chaining of calls
   4. Energy percentile- threshold filter
   5. Total points- the total number of detection intervals
   6. Duration- median duration
   7. Accuracy- % of how many logged calls the detector was able to detect
   8. Multiple call % how many detections had more than one logged call in the interval
   9. Intersections- list of startitmes( from the manual log) that the detector was able to pick up
   10. Number- histogram type breakdown of how many detections had how many logged calls present
   11. Type- Histogram breakdown of the labels of calls that the detector was able to detect
   12. Filename- name of the detector file