Summary:

	RF1	RF2	RF3	Training Set
orfs: max	-1.09861228867	-1.09861228867	-1.09861228867	-33.257101837
min	-38.2929427266	-39.7972199092	-37.5487691014	-37.5408582619
avg	-13.3491956633	-14.3265399805	-16.3929968701	-35.2796448016
noncoding: max	-1.09861228867	-1.50407739678	-1.09861228867	-4.52178857705
min	-9.45820624719	-9.57127127325	-9.77132884372	-9.1345489323
avg	-6.76836142806	-6.82626342182	-6.80933729646	-6.65260758123

Program brief description:

3 python modules:

- 1. orf.py
- 2. prob model2.py
- 3. training.py

The orf.py module reads in the FASTA file, contains the ORF_FINDER class which collects the potential ORFs and noncoding regions in a given reading frame.

The training.py reads in the training data and formats it for the prob model2.py module.

The prob_model2.py contains the ZEROTH class which logs and sums the probabilities. I wrote a demo() function in this module the output of that can be seen below.

Program output:

Reading frame 1 open reading frames scores max, min, avg:

- -1.09861228867
- -38.2929427266
- -13.3491956633

Reading frame 2 open reading frames scores max, min, avg:

- -1.09861228867
- -39.7972199092
- -14.3265399805

Reading frame 3 open reading frames scores max, min, avg:

- -1.09861228867
- -37.5487691014
- -16.3929968701

Reading frame 1 noncoding regions scores max, min, avg:

- -1.09861228867
- -9.45820624719
- -6.76836142806

Reading frame 2 noncoding regions scores max, min, avg:

- -1.50407739678
- -9.57127127325
- -6.82626342182

Reading frame 3 noncoding regions scores max, min, avg:

- -1.09861228867
- -9.77132884372
- -6.80933729646

Training set data orfs scores max, min, avg:

- -33.257101837
- -37.5408582619
- -35.2796448016

Training set data noncoding scores max, min, avg:

- -4.52178857705
- -9.1345489323
- -6.65260758123