Readme

Files are as follows:

**First Problem**

CapitalOneChallengeProblem1.ipynb (explanation of model building process)

output.txt (model prediction for unlabelled regression)

BuildModel.py (build model from command line using the following)

>> python BuildModel.py < codetest\_train.txt

fitModel.py (predict the target values using this as follows)

>> fitModel.py < codetest\_test.txt

morph\_data.py (import of some helper functions)

To use all of this there are several libraries you may not have

1. py-earth (needed for Mars model)

2. xgboost (testing out xgboost model)

3. sklearn (testing out sklearns linear regression model)

**Second Problem**

Babynames.ipynb (work for answering questions and exploring the data)

BabyNames.pdf (write up explaining answers and explorations)

ken.pdf, karen.pdf, linda.png — images for this writeup

To run the ipynb you must have some of these more esoteric imports

1. fuzzy (for exploratory work)

2. graphviz (for graphing the exploratory work)