CECS 551
Assignment 1
Total: 20 Points

General Instruction

- Submit uncompressed file(s) in the Dropbox folder via BeachBoard (Not email).
- Use `Python 3`, any other programming language is not acceptable.
- You can import modules in the Python Standard Library (please check the full list *here*). If you want to use any other library, please consult with the instructor.

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1. (20 points) Implement regression algorithm and show the result using `scikit-learn` and `matplotlib` library.

   The checking point of the assignment; Python programming skill, Jupyter notebook, `scikit-learn`, `pandas`, and `matplotlib`.

   i. Find `Assignment_1_linreg.ipynb` and `Assignment_1_logreg.ipynb`.

   ii. You will be asked to fill-in the blanks to generate the output. For example, in Figure 1. "# Show the list of feature names for the dataset" is the question and "list(raw.feature_names)" is the answer for the question.

   iii. Follow the instructions and fill the blanks in the `Jupyter notebooks`. Your answers should show the similar results with the outputs in the instructions.

   iv. You can use `Assignment_1_linreg.html` and `Assignment_1_logreg.html` to check your outputs are same with the expected ones.

   v. Submit your `ipynb` files.

```
# Show the list of feature names for the dataset

list(raw.feature_names)
```

```
['MedInc',
 'HouseAge',
 'AveRooms',
 'AveBedrms',
 'Population',
 'AveOccup',
 'Latitude',
 'Longitude']
```

Figure 1: An example of questions