Kmeans Clustering

```
# (0) import Packages
from sklearn preprocessing import StandardScaler
from sklearn.cluster import Kmeans
from sklearn.metrics import silhouette_score
# (1) Read in your dataset
# (2) Pre-processing & cleaning
# (3) Standardize data
X_std = StandardScaler().fit_transform(data)
# (4a) Decide on K
# (4b) Run the Kmeans
kmeans = KMeans(n_clusters= K).fit(X_std)
# (5) Interprete results
      If unsatisfactory, go back to (2) and iterate
```

Run your code on the following datasets:

- (1) BirthDeathRates.
- (2) BankLoan

Hand-in Workshop:

Perform Kmeans on the restaurant dataset.

You can use the PCs or start afresh

Do the cluster validation (ref: slide57-58)

Deliverables (19July, 2359hrs):

Python Code

Clusters profiles

Interpretation

Note: hand in ONE .py file only

