Rhythm **Patel**

IQB Assignment 3

R E A D M E

Syntax Format:

```
python3 atp.py
```

Inputs asked:

- Type of model
  - SVC: Support Vector Classifier
  - RFC: Random Forest Classifier
- Window length. The window length for classifying to the sequence to vectors
- Balanced Option. Y/N for balancing the train dataset or not by Balanced Bagging Classifier.
- Output File. .csv format is preferred.

Default values:

- Model: SVC
- Window length: 13
- Balanced Option: Y
- Output File: output.csv

Please Note:

- Having train.data and test1.txt files in the same folder are mandatory.

Examples

1. **python3 atp.py** (kaggle submission 1)

```
Enter 'd' for default settings for the following
Enter 1 for SVM, Enter 2 for Random Forest Classifier: 1
Enter window size: 17
Enter Y/N to balance training data: Y
Enter output file name: submission1.csv
Model trained!
Output exported in submission1.csv
```

2. **python3 atp.py** (kaggle submission 2)

```
Enter 'd' for default settings for the following
Enter 1 for SVM, Enter 2 for Random Forest Classifier: 2
Enter window size: 13
Enter Y/N to balance training data: Y
Enter output file name: submission2.csv
Model trained!
Output exported in submission2.csv
```

3. **python3 atp.py**

```
Enter 'd' for default settings for the following
Enter 1 for SVM, Enter 2 for Random Forest Classifier: 1
Enter window size: d
Enter Y/N to balance training data: d
Enter output file name: d
Model trained!
Output exported in output.csv
```