COS30082_Lab10_Sentiment Analysis of Airline Tweets

Name: Tran Hung Quoc Tuan

Student id: 105000908

Dataset: Twitter US Airline Sentiment (labeled positive/negative)

Two word clouds:

Positive Tweets Word Cloud

Negative Tweets Word Cloud

The classification results for a few texts:

```
Tweet: I love flying with United, great service!
Predicted sentiment: positive

Tweet: The flight was delayed for 3 hours, terrible.
Predicted sentiment: negative

Tweet: Crew was nice but the seat was uncomfortable.
Predicted sentiment: negative
```

The classification accuracy:

```
Accuracy: 0.8956258120398844

Classification report:

                precision    recall   f1-score    support

     negative      0.89       0.99      0.94        1836
     positive      0.91       0.55      0.68         473

     accuracy                           0.90        2309
    macro avg      0.90       0.77      0.81        2309
 weighted avg      0.90       0.90      0.89        2309
```