Objectives:

- Learn to create stream from a file or collection
- Learn to transform stream elements using Lambda function or Method Reference
- Learn to collect elements from stream
 - 1. The file **MarkTwain.utf8.txt** contains a collection of works by Mark Twain, a famous American writer. You are asked to do text mining using Java Stream API. All tasks described below must be done with one single processing pipeline.
 - a. Print out the top 10 most frequently used words in descending order.

```
run:
the=155357
and=122642
of=79507
a=73628
to=71719
it=51428
in=48204
i=48100
that=40846
was=39606
BUILD SUCCESSFUL (total time: 1 second)
```

b. Group words by their initial in parallel and print out the frequent count of words from a to z.

```
a=353873
     b=128161
     c=112568
%
     d=88133
     e=54506
     f=101768
     g=58234
h=184450
     i=217871
     j=14645
     k=18011
     l=70394
     m=115386
     n=71192
     o=173020
     p=81947
     q = 4680
     r=55727
     s=212220
     t=453102
     u=32733
     v=16856
     w=206413
     x=682
     y=41562
     z=468
     BUILD SUCCESSFUL (total time: 1 second)
```

c. Find the top 10 most frequently used pair of words in descending order and save the result to a file.

```
1 of the=18241

2 in the=13406

3 it was=7537

4 to the=7121

5 and the=7031

6 it is=5929

7 he was=4553

8 on the=4467

9 of a=4367

10 was a=4271
```

Note that, when processing the words, they are treated **case-insensitively**. Also, all punctuations must be removed. For example, **after-dinner** is considered as two words **after** and **dinner**. Similarly, **you're** is treated as **you** and **re**.