Zadanie 7

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Dask

```
import dask.dataframe as dd
import pandas as pd
   if len(sys.argv) != 4:
       sys.exit(1)
    input file path = sys.argv[1]
   min word length = int(sys.argv[3])
       lines = file.readlines()
   dask df = dd.from pandas(pd.DataFrame({'lines': lines}), npartitions=1)
   words = dask df['lines'].str.split().explode().str.lower()
   words = words.apply(lambda word: ''.join(char for char in word if
char.isalnum()))
   words filtered = words[words.str.len() == word length]
   print(f"Words with length {word length}:")
    for index, row in word counts.iterrows():
   words min length = words[words.str.len() >= min word length]
words min length.value counts().compute().reset index(name='count')
   word counts min length = word counts min length.sort values(by='count',
scending=False)
   print(f"\nWords with minimum length {min_word length}:")
    for index, row in word counts min length.iterrows():
```

Dockerfile

```
FROM python:latest

RUN pip install dask[complete]

COPY wordcount.py /

ENTRYPOINT ["python", "/wordcount.py"]

CMD []
```

docker build -t dask-wordcount-2.

```
Words with length 3:
(see, 2)
(the, 2)
(and, 1)
(how, 1)
(for, 1)
(out, 1)
(use, 1)
Words with minimum length 5:
(appears, 1)
(count, 1)
(counted, 1)
(program, 1)
(results, 1)
(sample, 1)
(separately, 1)
(should, 1)
(testing, 1)
(times, 1)
```