

PTA-Group 1: Assignment 2

1.1:

```
Counter({'child': 46, 'wife': 22, 'father': 18, 'mother': 9})
Counter({'disease': 10})
Counter({'science': 20, 'mathematics': 9})
```

1.2a:

```
In three cases, namely:
{location, place} = work
{shape} = machine
{time} = history
```

1.2b:

```
The noun 'King' is in {attribute, property}, {substance}
The noun 'War' is in {event, happening}, {act, action,
activity}
The noun 'Work' is in {event, happening}, {act, action,
activity}
```

1.2c

Average number of hypernyms per noun: 6.2272727272727275

1.3

```
Similarity scores:
car & automobile
3.6375861597263857
coast & shore
2.9444389791664407
food & fruit
1.3350010667323402
journey & car
0.7472144018302211
monk & slave
2.0281482472922856
moon & string
1.6916760106710724
```

2.1

```
Counter({'O': 659, 'ORGANIZATION': 315, 'PERSON': 149,
'DATE': 30, 'LOCATION': 20})
They certainly aren't all correct.
```

2.2

The other classifiers seem to achieve similar results, but because of the multiple categories it is more interesting to read.

2.3

See final output, no output in pdf-file.