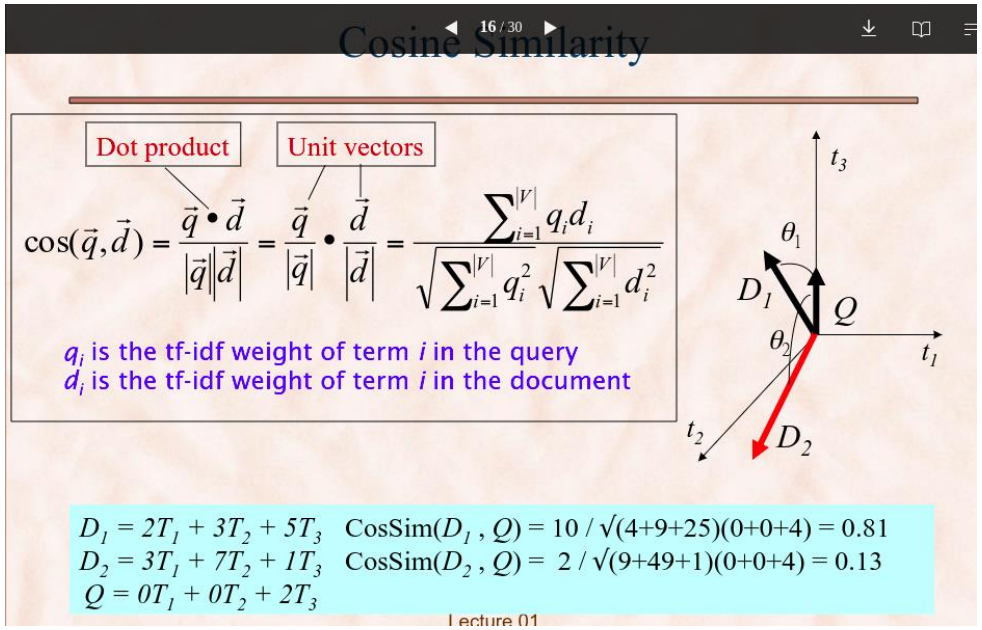
Assignement 2

Hypothesis

Find the query : "killed people garden" into the 200 scripts

CALCULS



- I did the same base as the first assignement.
- I calculated the TF so: 1 + log(the number of occurence of the word)
- Then I calculated the IDF: log2(total documents / documents where the word is)
- I multiplied IDF x TF to have the weight: so each IDF per word for the word with TF value
- I calculated the distance of the document by doing the calcul on the class pdf . So we can score the document.

CALCULS

```
➜  assignement2 python3 prog.py
Precision: 100.0 %
Recall: 5.263157894736842 %
➜  assignement2
```

- I calculated the precision and the recall:
- Precision = (tp / (tp +fp)) *100 (convert in %)
- Recall = (tp/ (tp + fn)) * 100 (convert in %)
- So as retrieval documents I set at the value of 10.
- For the precision it means on 10 documents, all the words of the query were found.
- For the recall, it means on 200 scripts we took ~5,26% of the total documents to search the query