

Øving 6: Komprimering og dekomprimering

Mulighet til å kjøre kode fra terminal og i IDE

Null mappestruktur så filene som skal kjøres må være i samme fil som kodene

Kjøring for de ulike filene:

diverse.lyx

```
PS C:\Users\alper\Documents\H24\Algo\komp> python compress.py diverse.lyx
Compressed 'diverse.lyx' to 'diverse_compressed.lyx'
Original file size: 182355 bytes
Compressed file size: 50648 bytes
Compression reduced the file size to 27.77% of the original.
PS C:\Users\alper\Documents\H24\Algo\komp> python decompress.py diverse_compressed.lyx
Decompressed 'diverse_compressed.lyx' to 'diverse_decompressed.lyx'
PS C:\Users\alper\Documents\H24\Algo\komp> cmd /c fc diverse.lyx diverse_decompressed.lyx
Comparing files diverse.lyx and DIVERSE_DECOMPRESSED.LYX
FC: no differences encountered
```

Komprimerer til 50KB (27.77% av original filstrl)

No loss i komprimering.

diverse.txt

```
Compressed 'diverse.txt' to 'diverse_compressed.txt'
Original file size: 16771 bytes
Compressed file size: 12783 bytes
Compression reduced the file size to 76.22% of the original.
```

Ser at den ikke fungerer like bra med små filer

```
PS C:\Users\alper\Documents\H24\Algo\komp> cmd /c fc diverse.txt diverse_decompressed.txt
Comparing files diverse.txt and DIVERSE_DECOMPRESSED.TXT
FC: no differences encountered
```

Stil no loss

Jules Verne https://www.idi.ntnu.no/emner/idatt2101/kompr/Twenty_thousand_leagues_under_the_sea.txt

jeg har kalt den jules.txt bare

```
PS C:\Users\alper\Documents\H24\Algo\komp> python compress.py jules.txt
Compressed 'jules.txt' to 'jules_compressed.txt'
Original file size: 609116 bytes
Compressed file size: 351318 bytes
Compression reduced the file size to 57.68% of the original.
PS C:\Users\alper\Documents\H24\Algo\komp> python decompress.py jules_compressed.txt
Decompressed 'jules_compressed.txt' to 'jules_decompressed.txt'
PS C:\Users\alper\Documents\H24\Algo\komp> cmd /c fc jules.txt jules_decompressed.txt
Comparing files jules.txt and JULES_DECOMPRESSED.TXT
FC: no differences encountered
```

Komprimerer igjen ikke like bra som diverse