

Opgave 1

Christoffer Wadum Larsen

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1 Part 1

1.1 Q1

```
1 [chris@localhost opgave2]$ sudo chmod 755 S1.bash
2 [chris@localhost opgave2]$ ./S1.bash
3 Hello world Happy Birthday
4 [chris@localhost opgave2]$
```

1.2 Q2

These variables are local. When opening a new terminal they will be uninitialized.

```
1 [chris@localhost opgave2]$ echo $VAR1
2
3 [chris@localhost opgave2]$
```

1.3 Counting files

```
1 [chris@localhost opgave2]$ alias how_many_files="ls -l | wc -l"
2 [chris@localhost opgave2]$ how_many_files
3 9
4 [chris@localhost opgave2]$ alias how_many_files='VAR4=$(pwd | _contains_ 'ls -l | _wc -l ' _
   files , _including_ 'ls -l *.txt | _wc -l ' _ .txt_files" '
5 [chris@localhost opgave2]$ echo $VAR4
6 /home/chris/git/lpp/opgave2 contains 9 files , including 0 .txt files
7 [chris@localhost opgave2]$
```

2 Part 2

2.1 Output for S2.bash

```

1 [chris@localhost opgave2]$ bash S2.bash
2 --- File --- Original --- Compressed
3 --- random0 | 158508 | 63090
4 --- random1 | 288168 | 108920
5 --- random2 | 477654 | 175850
6 --- random3 | 616853 | 224176
7 --- random4 | 683689 | 244997
8
9 [chris@localhost opgave2]$

```

2.2 Scatter plot

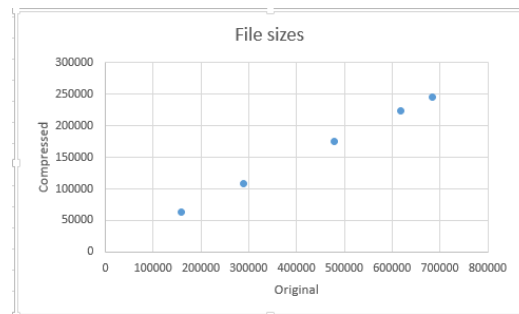


Figure 1: Scatter plot showing the compressed file size versus the original file size.

3 Part 3

```

1 [chris@localhost opgave2]$ sleep 300&
2 [1] 3781
3 [chris@localhost opgave2]$ sleep 300&
4 [2] 3785
5 [chris@localhost opgave2]$ sleep 300&
6 [3] 3789
7 [chris@localhost opgave2]$ sleep 300&
8 [4] 3793
9 [chris@localhost opgave2]$ ps | grep "sleep"
10 3781 pts/2    00:00:00 sleep
11 3785 pts/2    00:00:00 sleep
12 3789 pts/2    00:00:00 sleep
13 3793 pts/2    00:00:00 sleep
14 [chris@localhost opgave2]$

```

4 Part 4

```

1 [chris@localhost opgave2]$ bash S4.bash
2 The surface of a rectangle with width 6 and length 7 is 42
3 [chris@localhost opgave2]$

```