

Assignment 2 (bash)

1.1: Calculator

Make a bash script which can read a bunch of numbers from the command line and print their sum, product, maximum or minimum. Should be executable as `./calc.sh ? 1 2 3 4 5 ...` where `?` is `+` for sum, `*` for product, `M` for maximum and `m` for minimum. Examples:

```
$ ./calc.sh + 2 5
7
```

```
$ ./calc.sh * 4 2 3
24
```

```
$ ./calc.sh M 5 3 3 2
5
```

```
$ ./calc.sh m 5 3 3 2
2
```

Name of file: `calc.sh`

Points: 3

1.2: Clock

Make a simple clock by creating a bash script which, when run, prints the current time every second. To avoid making the terminal cluttered, have it clear the terminal before printing so only the current time is visible. Also give the script a command line option so that if run with the flag `--AMPM`, time is printed in the AM/PM-format (6:30 PM), while if the flag is not present, time is printed in the 24h format (18:30).

Name of file: `clock.sh`

Points: 2

1.3: Personal assistant

Make a script which looks up the departure times of the subways from Forskningsparken for you. These can be found on ruter.no. The script should print the next departure time for each of the six subways departing from Forskningsparken if called with no arguments. If called with the flags `--E` or `--W`, instead print only eastbound or westbound subways respectively. Also add the option for a command line argument to be given to specify another station to show subways from, and add support for Blindern as well as whichever subway station is closest to your home.

Name of file: `subway.sh`

Points: 5