SED and regular expressions

We have already learned REGEX. Let's learn the use of `SED + REGEX` by using a couple of practical exmaples:

Example 1: match patterns and REGEX (`\!.*`)

```
$ sed '/\!/s/\!.*//g' datafile
```

In this example, if the line matches with the pattern `"!"`, then it replaces all the characters from `"!"` with an empty char.

Example 2: use REGEX to delete the last `x` characters

```
$ sed 's/...$//' datafile
```

This sed example deletes last 3 characters from each line.

Example 3: use REGEX to eliminate comments (`#`)

```
$ sed -e 's/#.*//'  datafile
```

This sed example deletes last 3 characters from each line.

Example 4: use REGEX and eliminate Comments (`#`) as well as the empty lines

```
$ sed -e 's/#.*//;/^$/d'   datafile
```