var1 = "spreadsheet.csv"

↳ the variable contains the file name
(string of 15 characters)

var2 = $(cat spreadsheet.csv)

↳ this variable contains the whole content
of the file (very large string containing some
ln chars)

Concatenation in Bash: the no-operator

```
line1 = "Hello, Margaret"
line2 = "Thatcher"
line3 = ${line1}${line2}
echo "${line3}"
```

→ produces "Hello, MargaretThatcher"

REGULAR EXPRESSIONS

Regular expresions help specify strings loosely, according to certain patterns.

REGEXP	WHAT IT CAN MATCH
a	the character "a" only
[abd]	any one of the single characters in the brackets
[^abd]	any single character NOT being a, b or d

REGEXP	WHAT IT MATCHES
`.`	any single character
`a*`	any series of zero or more consecutive 'a' characters
`[0-9]`	any single digit
`[0-9]*`	any number of digit(s) (zero or more)
`[0-9]+`	one or more digit(s)
`.*`	any string, whichever its length

! extended regexps ↘

Structure of an AWK script

BEGIN { actions to be performed once at the beginning } (optional bits in green)

selection rule1 { actions1 }

selection rule2 { actions 2 }

selection rule3 {actions 3}

END {actions to be performed after the last record is processed}

```
BEGIN { FS="," ; sum=0 }
{ sum += $2 }
END { print sum }
```

→ this script prints the sum of all values in the second field