Ingé1 - Unix

LAB 12 – Review Session (Past Exam 2024-2025)

ESME Bordeaux-Lille-Lyon-Paris

Exercise 1 : Guessing game

Write a script named `guess` that asks the user to guess a number between 0 and 100 inclusive.

User interactions are described below, including the script should return `--` or `+++` if the suggestion is too small or too large, respectively.

Expected outputs:

```
$ ./guess
Guess a number between 0 and 100 inclusive
>>> 50
---
>>> 25
---
>>> 1
+++
>>> 5
won 5
```

Exercise 2 : Temperature converter

Write a script named `temperature` that takes a temperature and a temperature unit 'C' (Celsius) or 'F' (Fahrenheit) and returns the temperature in the requested unit. The script must take two arguments, the temperature and the unit. If the script does not receive exactly two arguments, a help message must be displayed and the script must terminate.

If the unit is neither 'C' nor 'F' the script must return the usage message and terminate.

Expected outputs:

```
$ ./temperature 20 F
68
$ ./temperature 68 C
20
$ ./temperature
Usage: ./temperature <température> <unité (C ou F)>
$ ./temperature 10 A
Error: Unit must be 'C' for Celsius or 'F' for Fahrenheit.
Usage: ./temperature <température> <unité (C ou F)>
```

Exercise 3 : Display email

Write a script named `getEmail` that extracts and displays all email addresses present in a file passed as a parameter. The script must take a single argument, the file to process.

If the script does not receive exactly one argument, a help message must be displayed and the script must terminate.

Expected outputs:

```
$ echo "Filipe Vasconcelos filipe.vasconcelos@esme.fr" > test.email
$ ./getEmail test.email
filipe.vasconcelos@esme.fr
$ echo "Filipe Vasconcelos filipe.vasconcelos@esme.fr" >> test.email
$ ./getEmail test.email
filipe.vasconcelos@esme.fr
filipe.vasconcelos@esme.fr
$ ./getEmail
Usage: ./getEmail <fichier>
```