# Ingé1 - Unix
## *LAB 10 – Shell Programming (bash) (Part 4)*

ESME Bordeaux-Lille-Lyon-Paris

## Exercise 1 : Pattern Matching

**Q1.** Using a `case` statement, write a script that determines whether a character entered from the keyboard is a lowercase letter, an uppercase letter, or a digit.

**Q2.** Write a second script that checks if a string consists of digits only. The string is provided as an argument on the command line. A conditional statement should verify that only one non-empty argument is entered on the command line. Then, a `case` statement is used to determine if the entered string is entirely numeric.

## Exercise 2 : Regular expression

**Q1.** Create a script that asks the user to enter a password that meets the following conditions:.

1. This password must contain at least 8 characters. If it contains fewer than 8 characters, the console should display a message: **Your password must contain at least 8 characters**.

2. This password must contain at least one uppercase letter, one lowercase letter, and one special character (special characters are: **!**  **,** **=** **+** **/** **＿** **\\**).

3. If all conditions are met, a message should be displayed on the console: Your password is validated.