**Coding challenge**

A Rust program is needed which checks to see if a user’s new password successfully passes a set of predefined rules.

The current three criteria are:

1. Password must be a minimum of 8 characters
2. Password must contain at least 1 uppercase character
3. Password must contain at least 1 digit

**Design notes:**

* You should obtain a new password (to check) via stdin user input, i.e. keyboard (it is not necessary to obfuscate the keystrokes)
* The code should be maintainable, i.e. written in such a way that adding an additional rule, e.g.

Password must contain at least 1 punctuation character

is a relatively painless process.

**Extension tasks**

1. Accept the new password *twice* and check that they are both valid *and* identical.
2. Display a summary message indicating which tests have passed and which have failed.
3. Code using functions if you’re familiar with the syntax already.