Computer Science I – Prepa Tec Campus Eugenio Garza Lagüera  
2nd Partial Lab 🡪 Part 1

**Problem 1: A terrible password**

*Using passwords based on your personal information, such as name, country of origin or favorite hobby is a terrible idea. Any hacker can use social engineering and tools like Johnny (*[*https://www.youtube.com/watch?v=C9wP49Z2JBQ*](https://www.youtube.com/watch?v=C9wP49Z2JBQ)*) to crack your password.*

Build a program that asks for three inputs from the keyboard

* Your first name
* Last name
* Your birthday in the following date format: dd/mm/yyyy

Then, it should print to the console a password using the following pattern:

* First two digits of the first name in lowercase
* 2 digits of the month
* 4 digits of the month
* Last name

**Challenge!**

* Validating date inputs is complicated. For once, not all months have the same number of days: January has 31, and September has 30. Can you think of 5 validations that you would need to do on a date written using the dd/mm/yyyy format? Write them down in your notebook.

**Problem 2: Minimum requirements for voting**

*In most countries around the world, voting on your local elections through an online portal is not allowed. In 2023, this seems so backward… but is there a good reason for it?* [*https://www.youtube.com/watch?v=LkH2r-sNjQs*](https://www.youtube.com/watch?v=LkH2r-sNjQs)

Build a program that will be used at a voting booth to allow a citizen to vote in a local election or not. Only people who meet ALL the conditions can cast their vote:

* The person must be at least 18 years old.
* The person must be a Mexican resident.
* The person must live in the zip code range of 64700 to 64790.
* Must have a valid ID number. A valid ID number consists of 5 characters, starting with the letter Z, followed by 4 numbers. For example: Z0123.