# Cairo Crash Course

## Basic Data Types - Exercise 3

In this exercises we will practice basic Cairo operations by performing some conversions with felts and integers.

#### **Contract Implementation**

In the basic\_types\_exercises\_3.cairo file, complete the given functions according to the following instructions:

- add\_felt(value: (felt252, felt252)) -> felt252: This function receives a tuple as a parameter, decouples is and return the sum of its values.
- subtract\_felt(x: felt252, y: felt252) -> u8: Here, the function takes two felts. Perform the operation x y and return the result as a u8. Note: You don't need to check the condition where y is greater than x.
- multiply\_felt(x: u32, y: felt252) -> u32: Given a u32 and a felt252, multiply the parameters and return the result as a u32.
- divide\_felt(x: u64, y: u64) -> felt252: This function receives two u64 values. Perform the division x / y and return the result as a felt252.

#### Checking the exercise

- Ensure your .cairo file compiles and the test passes by executing the command snforge test basic\_types\_3.
- You'll notice an additional test with the attribute #[should\_panic]. This is for the case in the subtract\_felt function where y is greater than x, handling the ('Option::unwrap failed.') error. Don't worry; more testing details will be covered in later chapters. 😉

### Useful links

**Data Types and Operations**