Solidity Variables Types

 Solidity is a programming language that is statically-typed, meaning that every variable type must be specified at compile time.

Simple types:

- Boolean variables
- By default initialized with **false**
- Signed and Unsigned Integers of various sizes
- int8 to int256, uint8 to uint256 in steps of 8
- int8 is between -128 and +127, int16 is between -32768 and +32767 and so on
- int is alias to int256 and uint is an alias to uint256
- By default an int is initialized with zero
- There is no full support for float/double (fixed point numbers) in Solidity

Solidity Arrays

Arrays

- 1. Fixed-size
- Has a compile-time fixed size
- bytes1, bytes2, ..., bytes32
- byte is an alias for bytes1
- Integer fixed-size arrays: int8 to int256 and uint8 to uint256
- member: length
- 2. Dynamically sized arrays
 - byte[]
- byte[] is an alias to bytes
- string (UTF-8 encoding)
- uint[], int[]
- members: length and push