C Programming - Variables and Arrays

- 1. A variable in C is a name given to a memory location.
- 2. Variables must be declared before they are used.
- 3. An array is a collection of elements of the same type stored at contiguous memory locations.
- 4. The size of the array must be known at compile time.
- 5. Arrays can be one-dimensional or multi-dimensional.
- 6. Example: int numbers[5]; declares an array of 5 integers.
- 7. Strings in C are arrays of characters ending with a null character '\0'.