1. Methods

Methods

```
//  return type    method name    argument type
//      |    ┌-----------┘               |
//      |    |          ┌---------------┘
//      v    v          v
public int add(int a, int b) {
    return a + b;
}
```

Method parameters / arguments

- The variables that are passed to the method

Constructors

- Special type of methods that return the object itself.

- Called at the start of object creation

- Default constructor - the basic constructor possessed by all objects

Method overloading

- Let methods respond differently when the arguments are different

- Method signatures

  - Method name

  - Arguments list

    - Type of arguments

    - Order of arguments

    - Number of arguments

  - Name of arguments **does not** matter

  - Method return type **does not** matter

Variable number of arguments (VarArgs)

- Puts all additional arguments of the type into an array

- VarArgs must be the last parameter of a method