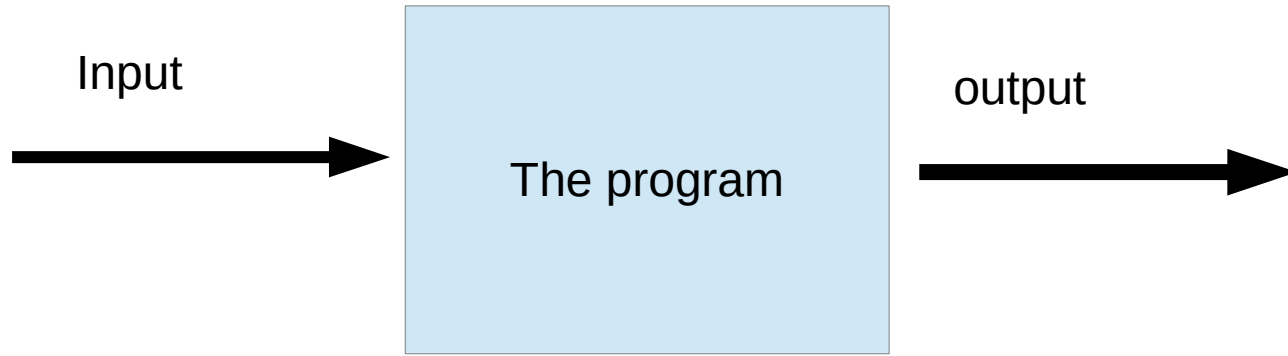


Programming

Quick recap

- The tools we have now:
 - **Variables** to keep data in our program while executing
 - Integer, boolean, string
 - Data structure: list (ordered), map/dictionnary (unordered)
 - **if/else** to decide what do to on condition(s)
 - **Loops** (for/while) to automate repetive tasks
 - **Files** to save the data once the program has finished

A program



A new tool: Function

- As the program becomes more complex:
 - The programmer needs to have reusable component
 - Simplify the logic by decomposing its parts

Functions

- A block of code that gets executed only when called
- As a **name**, receives 0 or more **arguments**
- Do something and sometimes **returns** a result

```
def my_function(argument1, argument2, ...):  
    #function code  
    return result
```

Example

import

- A mechanism to gain access to one **module** or more
- A module: A file containing python code

```
from app import ai
```

Example