Functions

Function Definition

```
def «function_name»(«parameters»):
  «body»
```

- `def`: a keyword indicating a function definition
- `function_name`: the function name, always in pithole_case
- `parameters`: the parameter(s) of the function, 0 or more
- `body`: one or more statements, often ending with a return statement
  - all body statements must be indented the same amount, usually 4 spaces

Return Statement

```
return «expression»
```

- **Form:**
  - `return «expression»`

- **How it’s executed:**
  - Evaluate the expression. This produces a value (which has a memory address).
  - Exit the function and produce that value to the caller.
Function Call

```
Name of function being called

«function_name»(«arguments»)
```

Zero or more expressions, comma-separated

The rules for executing a function call:

- Evaluate the arguments. These produce values. Each value has a memory address.
- Assign those values to the parameters. This stores the memory addresses of the values in the parameters.
- Pause the current statement and execute the body of the function.