

16 Oct '24

Functions

- you can return nothing if you like 'return' at the end of ^{function} definition.
- you can return more than one value like in integer division.
'return quotient, remainder'
at the end of function definition.

In function call,

$q, r = \text{integerDivision}(25, 4)$

$q = 6, r = 1$

→ see class example code for Division.

```
def functionName (parameter, ...)
```

```
...
```

```
return
```

function definition.

```
functionName (23, 42 ...)
```

function call.

Function definition should be before function calls if they are in the same file. Otherwise, function definitions could be in a different file and we can

import those functions before
calling them.

'from fileName import functionName'

↳ import one function

'from fileName import *

↳ import all functions in the file.

We can also import functions from
'libraries' created by others.

Libraries are useful functions that
we can get from other people.

→ Create a function to produce musical notes that we list.

— used AI to find libraries

— Eg: `import pygame.mixer`

HW: Complete song from class example