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Python functions

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Python, as well as many other programming languages, has a very useful structure called *function*.

We used functions before: `print(...)`, `int(...)`, `input(...)`, ... - they are called “**built-in**” functions/methods

Let’s learn how to define our own functions! We can define functions and use them as we please!
Functions

User-defined functions

```python
def myFunction(a,b,c):
    x = a + b + c
    y = a * b * c
    z = a - b - c

    return x,y,z

myFunction(4,5,6)
```
User-defined functions

def myFunction(a, b, c):
    x = a + b + c
    y = a * b * c
    z = a - b - c
    return x, y, z

myFunction(4, 5, 6)
def myFunction(a, b, c):
    x = a + b + c
    y = a * b * c
    z = a - b - c
    return x, y, z

myFunction(4, 5, 6)

x = 4 + 5 + 6 = 15
y = 4 * 5 * 6 = 120
z = 4 - 5 - 6 = -7
Functions

Let’s see these three examples:

- FunctionsExample1.py
- FunctionsExample2.py
- FunctionsExample3.py

Every example is followed up with the in-class activity. Show all the three activities upon completion to the instructor or in-class tutor.
What are the reasons for defining functions?

- Program readability
- Modularity
- Code reduction
- Eases location and correction of the errors
This OER material was produced as a result of the CS04ALL CUNY OER project.

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