

What is programming?

- Writing instructions for computers to perform tasks

Instructions

- operators
- for loops
- if-else conditionals
- functions

...

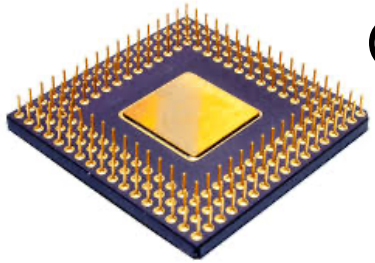
Classes

Data

- lists
- tuples
- dictionaries
- sets

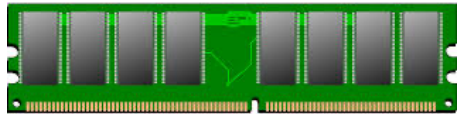
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Scripts
Modules,
Packages,
Libraries



CPU

Execute instructions



Memory

Data
Instructions

Script, module, package, and library

```
# in a python file: myScript.py
```

```
def add_two_numbers(a, b=0):  
    return a + b
```

```
num1 = 35  
num2 = 27  
added = add_two_numbers(num1,num2)  
print(added)
```

Script

```
# in a python file: myModule.py
```

```
def add_two_numbers(a, b=0):  
    return a + b
```

```
class usefulMath():  
    def raisePet(self):  
        someWork
```

Module

Packages: A set of modules with common theme

Library: A collection of essential packages. Python has a Standard Library.