Import

We can create and import our own modules

Allows us to use functions defined in different files

Python allows us to import files from our current directory, or the directories stored in **sys.path**

Checking whether ___name__ == "__main__" allows us to conditionally execute code in a file

E.g. Code which executes when we run **python3 file.py** but not when we **import file**

Example: When you import this file, main() is executed!

NOTE: To import, we can say

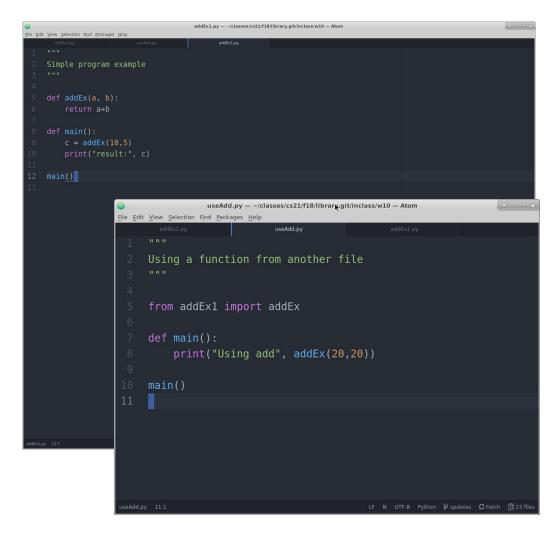
import addEx1

and call addEx1.add

or

from addEx1 import addEx

and call addEx



Example: When you import this file, main() is NOT executed!

NOTE: __name__ is a special variable which Python initializes when it executes a file. When you run

python3 addEx2.py

__name__ **is** "__main__"

Otherwise,

name is "addEx2"

```
addEx2.py - ~/classes/cs21/f18/library.git/inclass/w10 - Atom
File Edit View Selection Find Packages Help
      Simple program example
           return a+b
      print("NAME TEST: ", name )
           c = addEx(10,5)
                                                    use Add.py - {\sim}/{classes/cs21/f18/library.git/inclass/w10} - Atom
                                  File Edit View Selection Find Packages Help
                                       Using a function from another file
                                       from addEx2 import addEx
                                       def main():
                                             print("Using add", addEx(20,20))
                                       main()
```