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Sometimes when you are importing from a module, you would like to know whether
a modules function is being used as an import, or if you are using the original
.py file of that module. In this case we can use the:
      if __name__ == "__main__":
line to determine this. For example:
When your script is run by passing it as a command to the Python interpreter:
    python myscript.py
all of the code that is at indentation level 0 gets executed. Functions and
classes that are defined are, well, defined, but none of their code gets ran.
Unlike other languages, there's no main() function that gets run automatically
- the main() function is implicitly all the code at the top level.
In this case, the top-level code is an if block. __name__ is a built-in variable
which evaluate to the name of the current module. However, if a module is being
run directly (as in myscript.py above), then __name__ instead is set to the
 string "__main__". Thus, you can test whether your script is being run directly
 or being imported by something else by testing
    if __name__ == "__main__":
If that code is being imported into another module, the various function and
class definitions will be imported, but the main() code won't get run. As a
basic example, consider the following two scripts:
    # file one.py
    def func():
        print("func() in one.py")
    print("top-level in one.py")
    if name == " main ":
        print("one.py is being run directly")
        print("one.py is being imported into another module")
and then:
    # file two.py
    import one
    print("top-level in two.py")
    one.func()
    if __name__ == "__main__":
        print("two.py is being run directly")
    else:
        print("two.py is being imported into another module")
Now, if you invoke the interpreter as
    python one.py
The output will be
    top-level in one.py
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one.py is being run directly

If you run two.py instead:

python two.py

You get

top-level in one.py
one.py is being imported into another module
top-level in two.py
func() in one.py
two.py is being run directly

Thus, when module one gets loaded, its __name__ equals "one" instead of __main__.
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