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EXPLORING MODULES IN PYTHON

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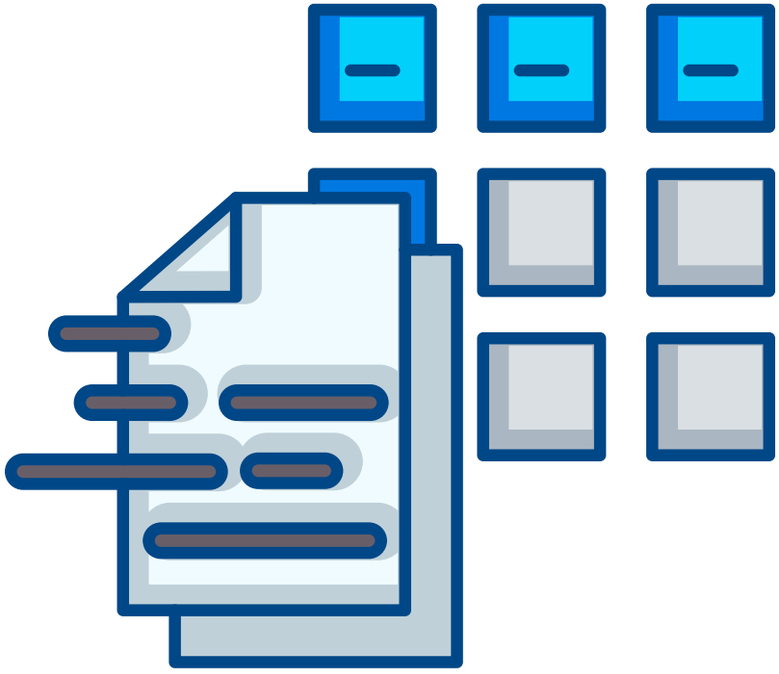
WHAT ARE MODULES?

MODULES ARE REUSABLE PIECES OF CODE THAT HELP ORGANIZE YOUR PYTHON PROGRAMS. THEY CAN CONTAIN FUNCTIONS, CLASSES, AND VARIABLES!



WHY USE MODULES?

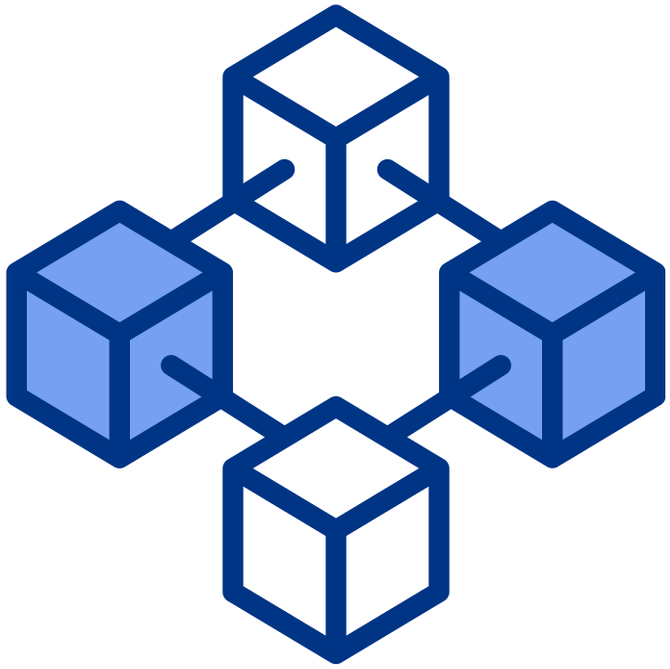
ORGANIZATION: KEEP YOUR CODE NEAT AND MANAGEABLE.

REUSABILITY: USE THE SAME CODE IN DIFFERENT PROJECTS.

COLLABORATION: SHARE YOUR CODE EASILY WITH OTHERS.

IMPORTING MODULES

YOU CAN IMPORT A MODULE USING THE IMPORT STATEMENT:

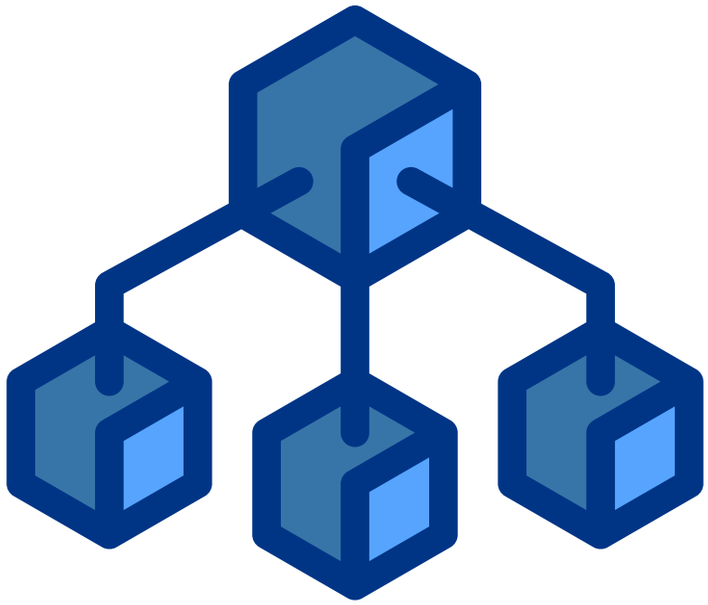


```
import math
```

This gives you access to mathematical functions and constants!

USING MODULE FUNCTIONS

AFTER IMPORTING, YOU CAN USE THE MODULE'S FUNCTIONS:



```
import math

print(math.sqrt(16))  # Output: 4.0
print(math.pi)        # Output: 3.141592653589793
```

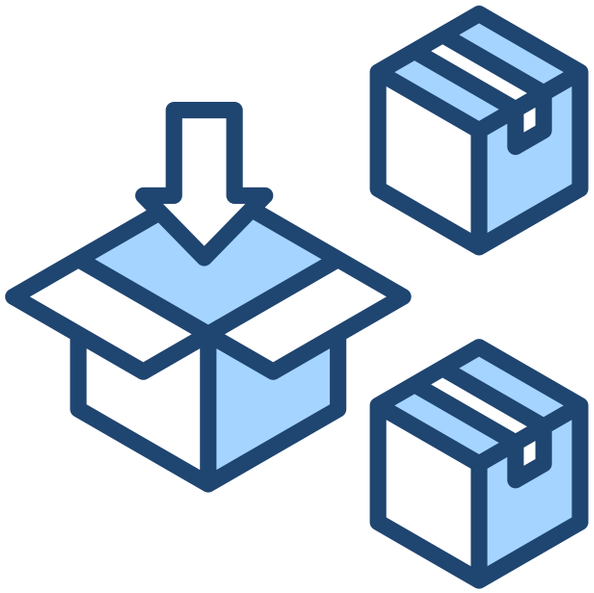
CREATING YOUR OWN MODULE

YOU CAN CREATE YOUR OWN MODULE BY SAVING FUNCTIONS IN A .PY FILE. FOR EXAMPLE, CREATE MY_MODULE.PY:

```
def greet(name):
    return f"Hello, {name}!"
```

IMPORTING YOUR MODULE

TO USE YOUR CUSTOM MODULE, SIMPLY IMPORT IT:

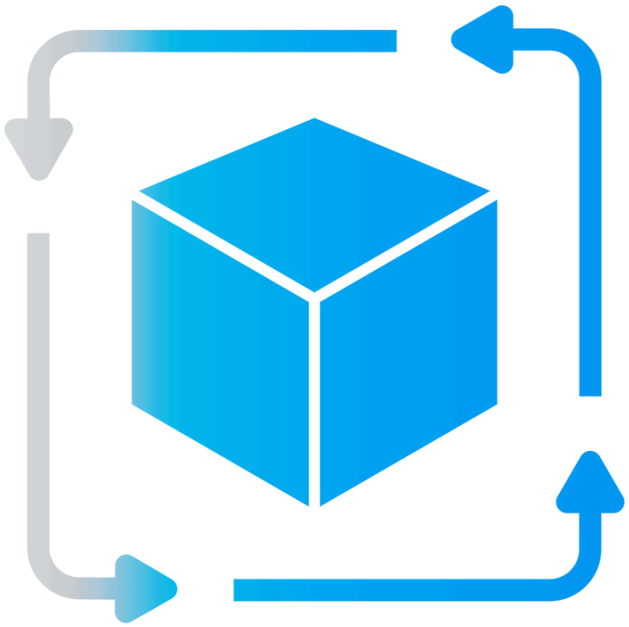


```
import my_module

print(my_module.greet("Alice"))  # Output: Hello, Alice!
```

POPULAR PYTHON MODULES

SOME POPULAR BUILT-IN MODULES INCLUDE:



os for operating system interactions
random for generating random numbers
datetime for working with dates and times

CONCLUSION

MODULES ARE ESSENTIAL FOR WRITING CLEAN, EFFICIENT, AND REUSABLE CODE. DIVE INTO PYTHON'S RICH ECOSYSTEM OF MODULES TODAY!

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