Python Computer Science

by
Christopher Andrew Topalian
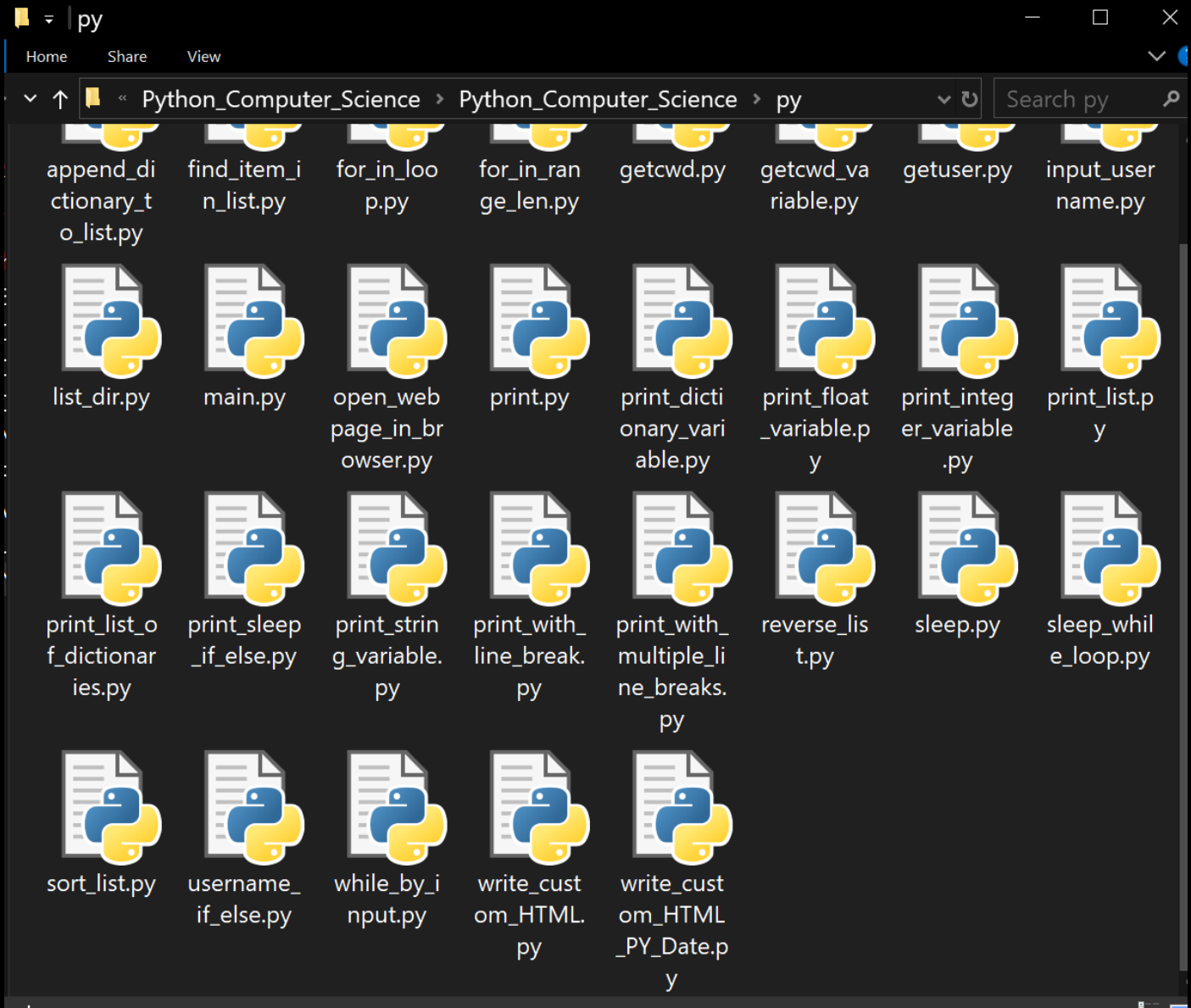
Dedicated
to
God the Father
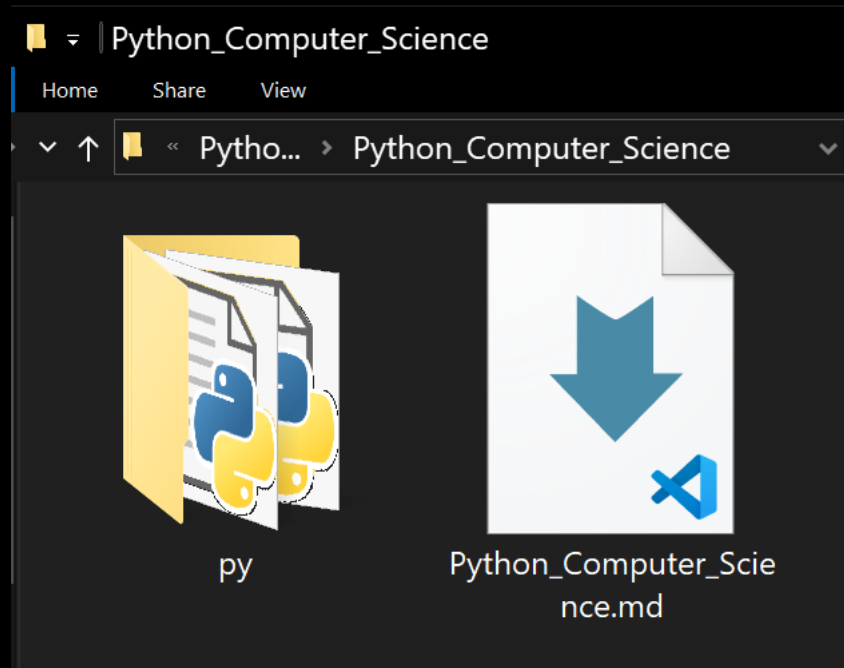
Here is our project folder.

We have our Python_Computer_Science.md file, that is our Table of Contents and it references scripts that are located in the folder named py

py

Home   Share   View

« Python_Computer_Science > Python_Computer_Science > py

Search py

append_di
ctionary_t
o_list.py

find_item_i
n_list.py

for_in_loo
p.py

for_in_ran
ge_len.py

getcwd.py

getcwd_va
riable.py

getuser.py

input_user
name.py

list_dir.py

main.py

open_web
page_in_br
owser.py

print.py

print_dicti
onary_vari
able.py

print_float
_variable.p
y

print_integ
er_variable
.py

print_list.p
y

print_list_o
f_dictionar
ies.py

print_sleep
_if_else.py

print_strin
g_variable.
py

print_with_
line_break.
py

print_with_
multiple_li
ne_breaks.
py

reverse_lis
t.py

sleep.py

sleep_whil
e_loop.py

sort_list.py

username_
if_else.py

while_by_i
nput.py

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om_HTML.
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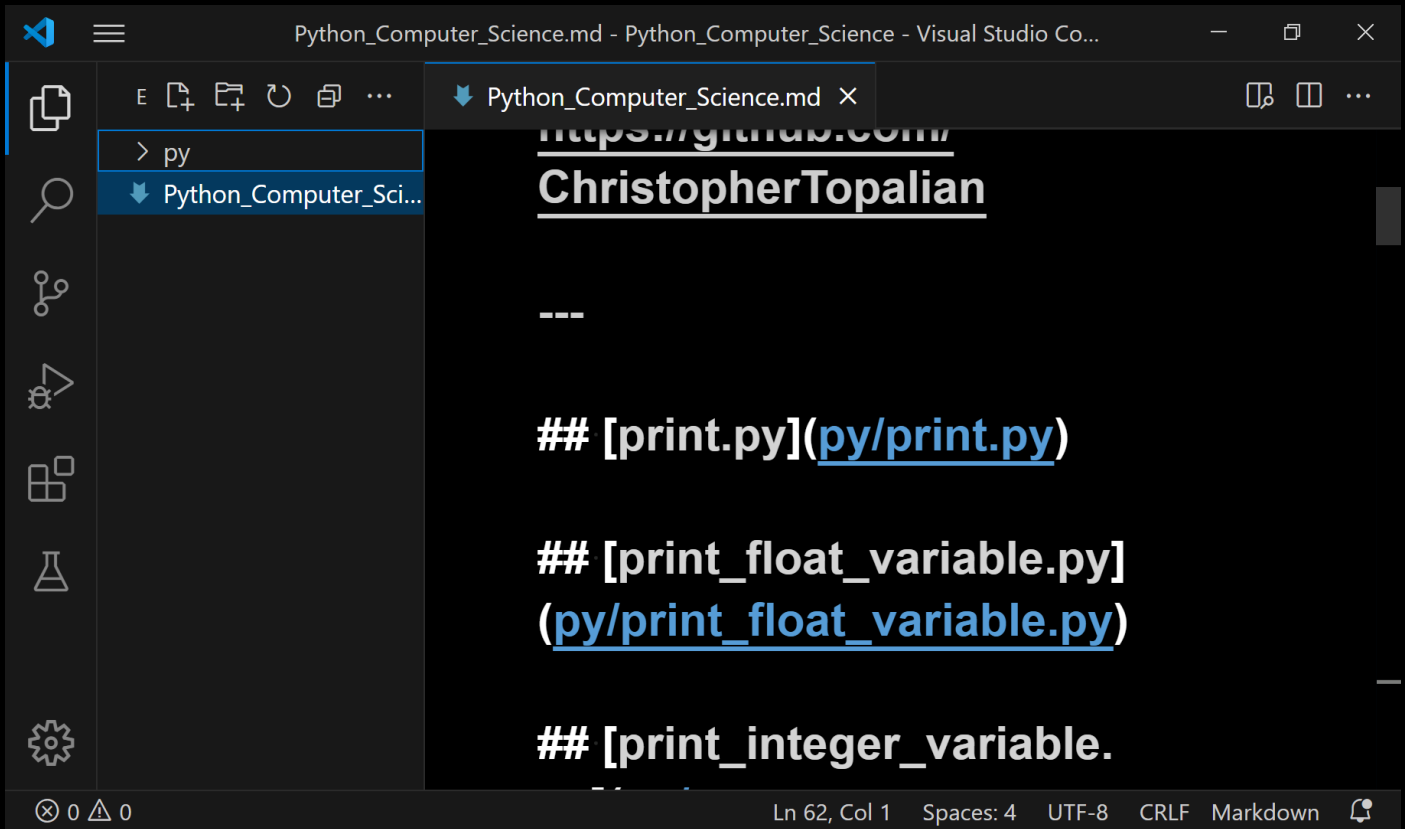om_HTML
_PY_Date.p
y

Here is our py folder of Python scripts.

Our Markdown file is located outside of the py folder.

We can open the Python_Computer_Science.md file in VSCode and use the Preview feature.

The Python_Computer_Science.md file is a Table of Contents that is clickable, but of course we must have the Python scripts in the py folder for it to reference correctly.
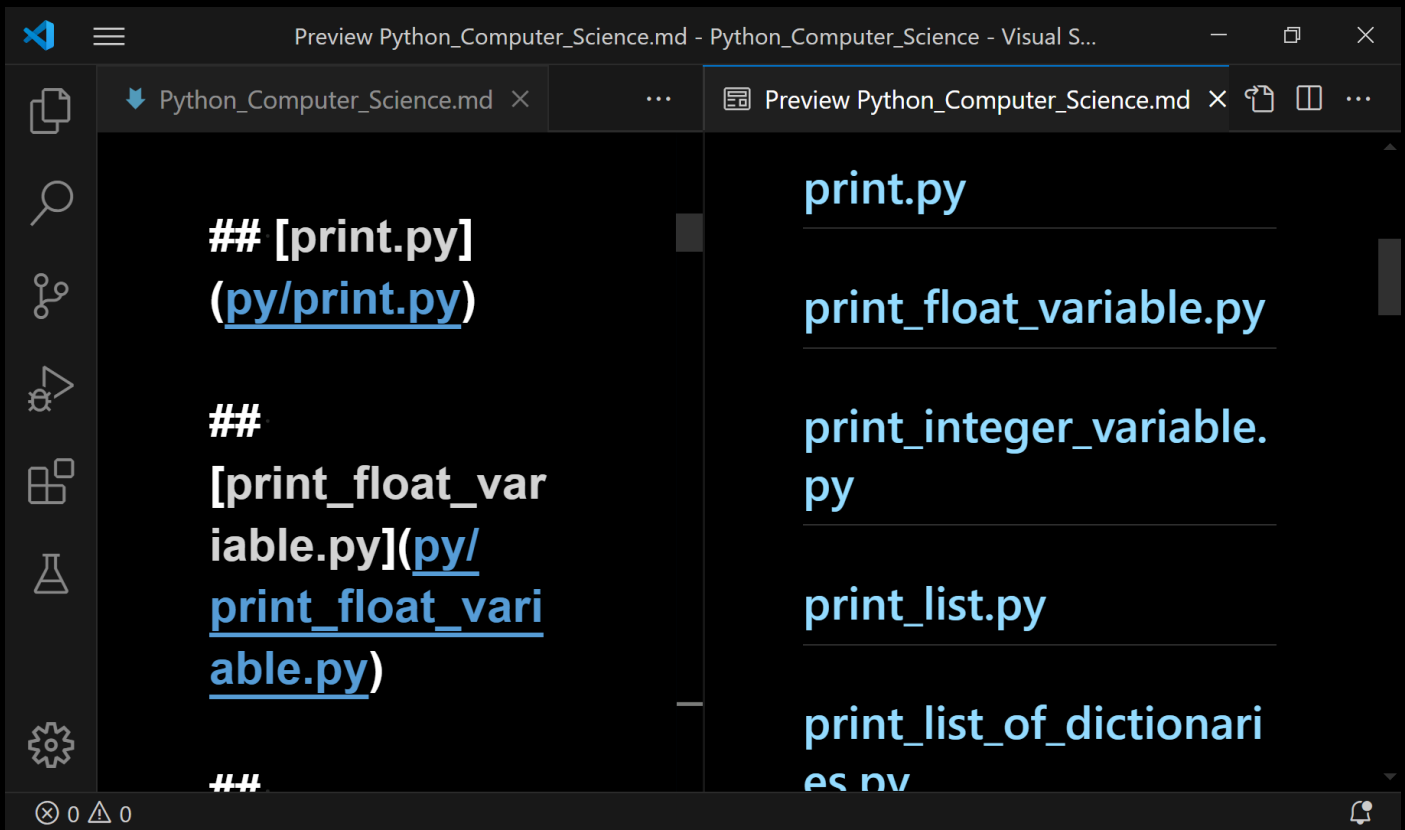
Important to note is that this also works on github! We can use the same reference structure so that people can have an easy time navigating our scripting project.

Happy Scripting :-)

Python_Computer_Science.md - Python_Computer_Science - Visual Studio Co...

Python_Computer_Science.md ✕

https://github.com/
ChristopherTopalian

[print.py](py/print.py)

[print_float_variable.py]
(py/print_float_variable.py)

[print_integer_variable.

Ln 62, Col 1   Spaces: 4   UTF-8   CRLF   Markdown

Hold Control + Left Click on any link to open a script

OR Left click on the Preview Icon at the top right of the VSCode Window to enter Preview mode.
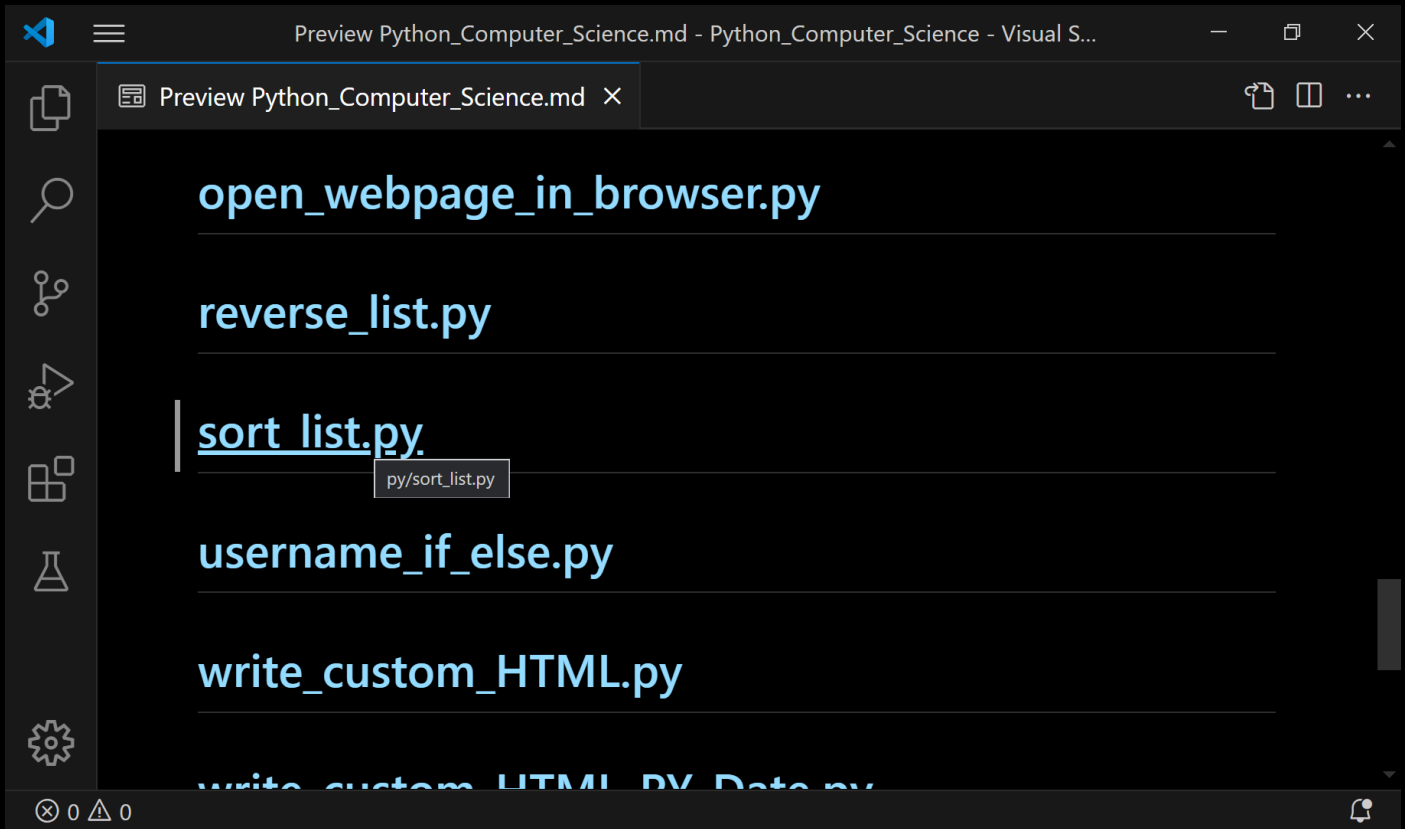
Preview Python_Computer_Science.md - Python_Computer_Science - Visual S...

Python_Computer_Science.md ✕ ...

Preview Python_Computer_Science.md ✕

[print.py]
(py/print.py)

##
[print_float_var
iable.py](py/
print_float_vari
able.py)

##

print.py

print_float_variable.py

print_integer_variable.
py

print_list.py

print_list_of_dictionari
es.py

⊗ 0 ⚠ 0

This shows our .md editable file on the left
and the preview of the rendered markdown
file on the right.
The right side can be left clicked on without
having to hold down control.

Preview Python_Computer_Science.md - Python_Computer_Science - Visual S...

Python_Computer_Science.md

Preview Python_Computer_Science.md

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Python_Computer_Science

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print.py

print_float_variable.py

⊗ 0 ⚠ 0
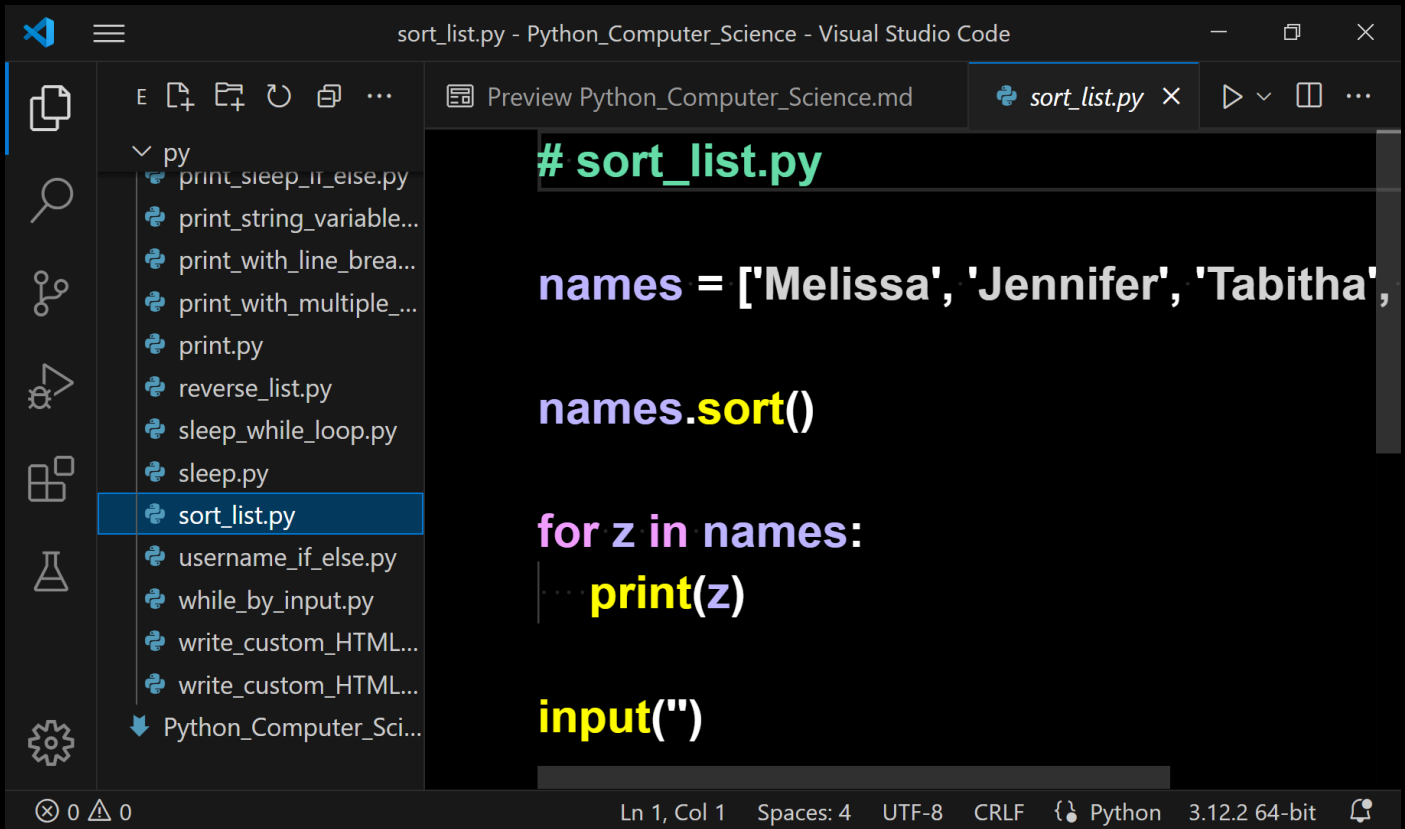
**Control + Shift + V
Full Preview of our Markdown file for easy
navigation in our VSCode scripting project.**

Preview Python_Computer_Science.md - Python_Computer_Science - Visual S...

Preview Python_Computer_Science.md ✕

open_webpage_in_browser.py

reverse_list.py

sort_list.py

py/sort_list.py

username_if_else.py

write_custom_HTML.py

write custom HTML PY Date py

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Let's say that we Left Click on the file named sort_list.py

Result is shown on the next page.

```
# sort_list.py

names = ['Melissa', 'Jennifer', 'Tabitha',

names.sort()

for z in names:
    print(z)

input('')
```

sort_list.py - Python_Computer_Science - Visual Studio Code

Preview Python_Computer_Science.md   sort_list.py

py
print_sleep_if_else.py
print_string_variable...
print_with_line_brea...
print_with_multiple_...
print.py
reverse_list.py
sleep_while_loop.py
sleep.py
sort_list.py
username_if_else.py
while_by_input.py
write_custom_HTML...
write_custom_HTML...
Python_Computer_Sci...

Ln 1, Col 1   Spaces: 4   UTF-8   CRLF   Python   3.12.2 64-bit

This opens our script in another tab and shows us which script in the folder is being worked on by highlighting the name of the script in the file explorer on the left side. This makes working on big projects very easy, because we are very organized.

<!-- Python_Computer_Science.md -->

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Python_Computer_Science
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[print.py](py/print.py)

[print_float_variable.py](py/print_float_variable.py)

[print_integer_variable.py](py/print_integer_variable.py)

[print_list.py](py/print_list.py)

[print_list_of_dictionaries.py](py/print_list_of_dictionaries.py)

[print_dictionary_variable.py](py/print_dictionary_variable.py)

[print_string_variable.py](py/print_string_variable.py)

[print_with_line_break.py](py/print_with_line_break.py)

[print_with_multiple_line_breaks.py](py/print_with_multiple_line_breaks.py)

[sleep.py](py/sleep.py)

[sleep_while_loop.py](py/sleep_while_loop.py)

[while_by_input.py](py/while_by_input.py)

##
[print_sleep_if_else.py](py/print_sleep_if_else.py)

##
[append_dictionary_to_list](py/append_dictionary_to_list.py)

##
[find_item_in_list.py](py/find_item_in_list.py)

[for_in_loop.py](py/for_in_loop.py)

##
[for_in_range_len.py](py/for_in_range_len.py)

[getcwd.py](py/getcwd.py)

[getcwd_variable](py/getcwd_variable.py)

[getuser.py](py/getuser.py)

[input_username.py](py/input_username.py)

[list_dir.py](py/list_dir.py)

[open_webpage_in_browser.py](py/open_webpage_in_browser.py)

[reverse_list.py](py/reverse_list.py)

[sort_list.py](py/sort_list.py)

[username_if_else.py](py/username_if_else.py)

[write_custom_HTML.py](py/write_custom_HTML.py)

[write_custom_HTML_PY_Date.py](py/write_custom_HTML_PY_Date.py)

```python
# append_dictionary_to_list.py

people = []

jane = {
    'name': 'Jane',
    'score': 98
}

people.append(jane)

print(people)
input('')
```

```python
# find_item_in_list.py

ourNumbers = [
    4, 875, 23, 543, 12
]

numberToFind = 875

if (numberToFind in ourNumbers):
    print(f'Yes, {numberToFind} is there')
else:
    print(f'No, {numberToFind} is NOT there')

input('')
```

```python
# for_in_loop.py

ourNumbers = [
    4, 875, 23, 543, 12
]

for z in ourNumbers:
    print(z)

input("")
```

```python
# for_in_range_len.py

ourNumbers = [
    4, 875, 23, 543, 12
]

for z in range(len(ourNumbers)):
    print(ourNumbers[z])

input('')
```

```
# getcwd.py

import os

print(os.getcwd())
input('')
```

```python
# getcwd_variable.py

import os

theCwd = os.getcwd()

print(theCwd)
input('')
```

```
# getuser.py

import getpass


print(getpass.getuser())
input('')
```

```python
# input_username.py

userName = input("Enter Username: ")

print("Username is: " + userName)
input("")
```

```python
# list_dir.py

import os

print(os.listdir())
input('')
```

open_webpage_in_browser.py

import webbrowser

webbrowser.open('https://github.com/ChristopherTopalian')

print.py

```python
print('Hi Everyone')
input('')
```

```python
# print_dictionary_variable.py

jane = {
    'name': 'Jane',
    'score': 98
}

print(jane)
input('')
```

print_float_variable.py

numberOfPeople = 20.82

print(numberOfPeople)
input('')

print_integer_variable.py

numberOfPeople = 20

print(numberOfPeople)
input('')

```python
# print_list.py

people = [
    'Jane',
    'Tabitha',
    'Melissa'
]

print(people)
input('')
```

print_list_of_dictionaries.py

```python
people = [
    {
        'name': 'Jane',
        'score': 95
    },
    {
        'name': 'Melissa',
        'score': 98
    },
    {
        'name': 'Tabitha',
        'score': 93
    },

]
```

```
print(people)
input('')
```

```python
# print_sleep_if_else.py

import time

print('Hi Friend')

time.sleep(3.0)

print('Is the sun shining?')

sunShining = input('y/n\n')

if (sunShining == 'y'):
    print('Nice that it is sunny out')
else:
    print('The sun will be there soon')

input('')
```

print_string_variable.py

numberOfPeople = 'Twenty'

print(numberOfPeople)
input('')

print_with_line_break.py

```python
print('Hi Everyone\nHappy Scripting')
input('')
```

print_with_multiple_line_breaks.py

```python
print('Hi Everyone\n\nHappy Scripting')
input('')
```

```python
# reverse_list.py

names = ['Jane', 'Jennifer', 'Melissa', 'Tabitha']

names.reverse()

for z in names:
    print(z)

input('')
```

```
# sleep.py

import time

time.sleep(4.0)

print('4 seconds passed')
input('')
```

```python
# sleep_while_loop.py

import time

x = 0

while x != 1:
    time.sleep(4.0)
    print('4 seconds passed')

input('')
```

```
# sort_list.py

names = ['Melissa', 'Jennifer', 'Tabitha', 'Jane']

names.sort()

for z in names:
    print(z)

input('')
# username_if_else.py

userName = input("Enter Username: ")

if (userName == 'Christopher'):
    print('Hi Christopher')
else:
```

```python
    print(f'Hi {userName}. Tell Christopher to
sign in.')

input('')
```

```python
# while_by_input.py

import time

x = input('Type 1 and press Enter\n')

while (x == '1'):
    time.sleep(4.0)
    print('4 seconds passed')

input('')
```

```
# write_custom_HTML.py

ourHTMLContent = """
<html>
<head>
<title> Our HTML Page </title>

<style>

body
{
    padding: 10px;
    background-color: rgb(30, 30, 30);
    font-family: Arial;
    font-size: 20px;
    color: rgb(255, 255, 255);
}
```

```
</style>

</head>

<body>

<div> Hi Everyone </div>

</body>

</html>

"""

with open('ourNewWebpage.html', 'w') as
theFile:
    theFile.write(ourHTMLContent)
```

write_custom_HTML_PY_Date.py

```python
import datetime as dt

currentDate = dt.datetime.now().strftime('%Y-%m-%d')

ourHTMLContent = f"""
<html>
<head>
<title> Our HTML Page </title>

<style>

body {{
    padding: 10px;
    background-color: rgb(30, 30, 30);
    font-family: Arial;
```

```
      font-size: 20px;
      color: rgb(255, 255, 255);
}}

</style>

</head>

<body>

<div> Current Date: {currentDate} </div>

<div> Hi Everyone </div>

</body>

</html>
```
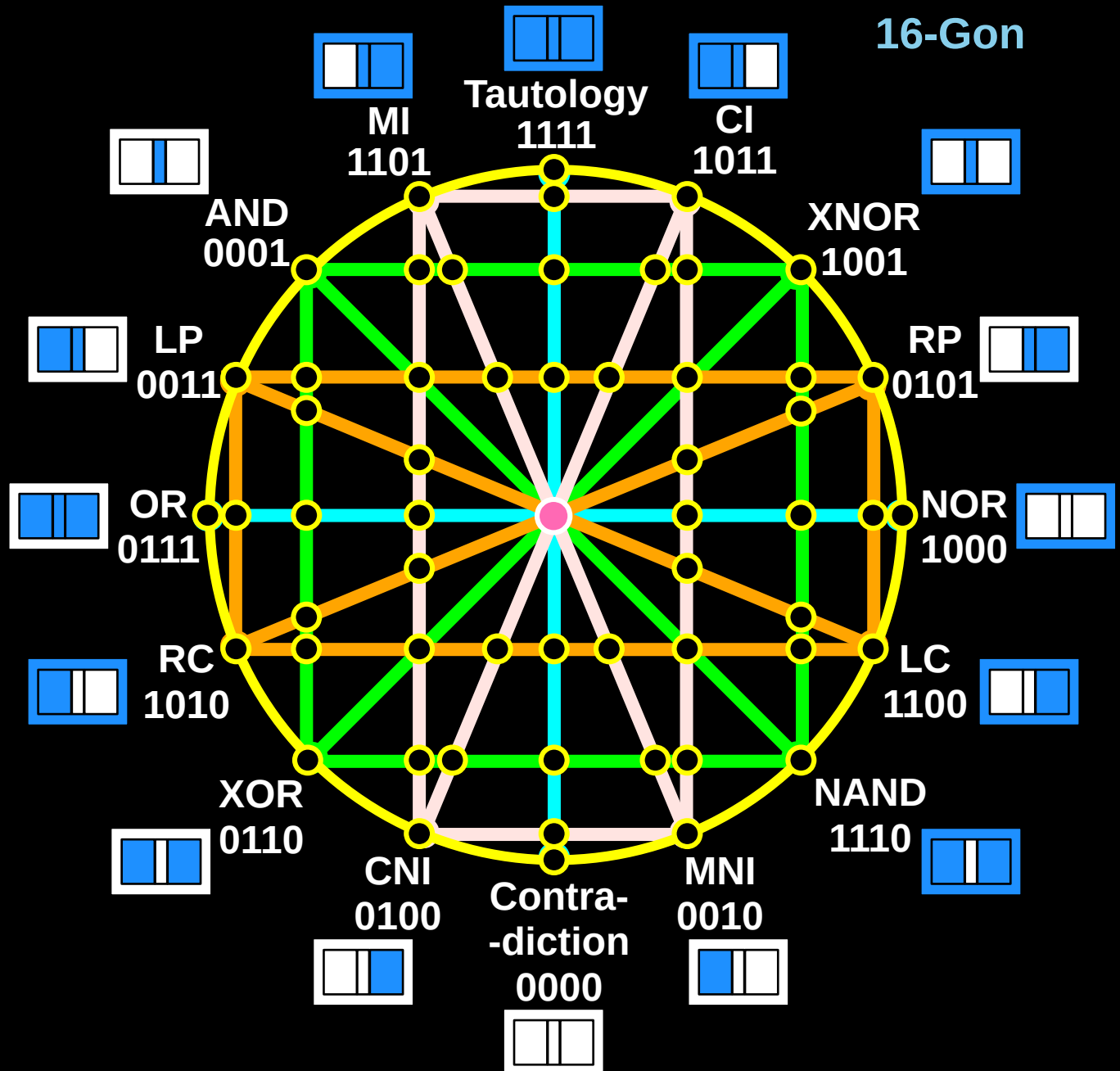
"""

```python
with open('ourNewWebpage.html', 'w') as
theFile:
    theFile.write(ourHTMLContent)
```

True Artificial Intelligence System

Christopher Topalian

16-Gon

MI 1101
Tautology 1111
CI 1011
AND 0001
XNOR 1001
LP 0011
RP 0101
OR 0111
NOR 1000
RC 1010
LC 1100
XOR 0110
NAND 1110
CNI 0100
Contra-diction 0000
MNI 0010

For More Tutorials:

GitHub.com/ChristopherTopalian

GitHub.com/ChristopherAndrewTopalian

Sites.google.com/view/CollegeOfScripting

CollegeOfScripting.weebly.com

CollegeOfScripting.wordpress.com

Youtube.com/ScriptingCollege

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Dedicated to God the Father

This book is created by the
College of Scripting Music & Science.
Always remember, that each time you write a script
with a pencil and paper, it becomes imprinted so
deeply in memory that the material and methods are
learned extremely well.

When you Type the scripts, the same is true. The
more you type and write out the scripts by keyboard
or pencil and paper, the more you will learn
programming!

Write and Type every example that you find.
Keep all of your scripts organized.
Every script that you create increases your
programming abilities.
SEEING CODE, is one thing,
but WRITING CODE is another.
Write it, Type it, Speak it, See it, Dream it.

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