

Topalian Python JavaScript Navigator

by

Christopher Andrew Topalian

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Dedicated
to
God the Father

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12
Time: 10:17:28 PM **getDate()**
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

JS

Date: 2024-06-12
Time: 10:17:29 PM
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12

CODE

```
# getDate.py

import datetime as dt

def getDate():
    today = dt.date.today()

    return today
```

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12

Time: 10:17:28 PM

Military Time: 22:17:28

Date Time: 06-12-24 10:17 PM

Year: 2024

Month Number: 6

Day of Month: 12

JS

Date: 2024-06-12

Time: 10:17:29 PM

Military Time: 22:17:29

Date Time: 6/12/2024, 10:17:29 PM

Year: 2024

Month Number: 6

Day of Month: 12

CODE

```
# getTime12.py

import datetime as dt

def getTime12():
    now = dt.datetime.now()

    currentTime = now.strftime("%I:%M:%S %p")
```

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12

Time: 10:17:28 PM

Military Time: 22:17:28

Date Time: 06-12-24 10:17 PM getTime24()

Year: 2024

Month Number: 6

Day of Month: 12

JS

Date: 2024-06-12

Time: 10:17:29 PM

Military Time: 22:17:29

Date Time: 6/12/2024, 10:17:29 PM

Year: 2024

Month Number: 6

Day of Month: 12

CODE

```
# getTime24.py

import datetime as dt

def getTime24():
    now = dt.datetime.now()

    currentTime = now.strftime("%H:%M:%S")
```

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12
Time: 10:17:28 PM
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

JS

Date: 2024-06-12
Time: 10:17:29 PM
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12

CODE

```
# getDateTime12.py

import datetime as dt

def getDateTime12():
    currentDateTime = dt.datetime.now()

    # formatted date MM-DD-YY
    date = currentDateTime.strftime("%m-%d-%v")
```

Topalian Python JavaScript Navigator

PY

- Date: 2024-06-12
- Time: 10:17:28 PM
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- Date Time: 06-12-24 10:17 PM
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- Month Number: 6
- Day of Month: 12

JS

- Date: 2024-06-12
- Time: 10:17:29 PM
- Military Time: 22:17:29
- Date Time: 6/12/2024, 10:17:29 PM
- Year: 2024
- Month Number: 6
- Day of Month: 12

CODE

```
# getYear.py

import datetime as dt

def getYear():
    today = dt.date.today()

    year = today.year
```

Topalian Python JavaScript Navigator

CODE

```
# getMonthNumber.py

import datetime as dt

def getMonthNumber():
    currentDate = dt.datetime.now()

    # 1 is Jan, 12 is December
    month = currentDate.month
```

JS

```
Date: 2024-06-12
Time: 10:17:29 PM
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12
Day of Week Name: Wednesday
Day of Week Number: 4
Day of Week Number 7th: 3
```

Topalian Python JavaScript Navigator

CODE

```
# getDayOfMonth.py

import datetime as dt

def getDayOfMonth():
    currentDate = dt.datetime.now()

    dayNumber = currentDate.day
```

JS

```
Date: 2024-06-12
Time: 10:17:29 PM
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12
Day of Week Name: Wednesday
Day of Week Number: 4
Day of Week Number 7th: 3
```

Topalian Python JavaScript Navigator

Military Time: 22:17:28	JS
Date Time: 06-12-24 10:17 PM	Date: 2024-06-12
Year: 2024	Time: 10:17:29 PM
Month Number: 6	Military Time: 22:17:29
Day of Month: 12	Date Time: 6/12/2024, 10:17:29 PM
Day of Week Name: Wednesday	Year: 2024
Day of Week Number: 4	Month Number: 6
Day of Week Number 7th: 3	Day of Month: 12

CODE

```
# getDayOfWeekName.py

import datetime as dt

def getDayOfWeekName():
    currentDate = dt.datetime.now()

    # 0 is Monday, 6 is Sunday
    dayOfWeek = currentDate.weekday()
```

Topalian Python JavaScript Navigator

Military Time: 22:17:28	JS
Date Time: 06-12-24 10:17 PM	Date: 2024-06-12
Year: 2024	Time: 10:17:29 PM
Month Number: 6	Military Time: 22:17:29
Day of Month: 12	Date Time: 6/12/2024, 10:17:29 PM
Day of Week Name: Wednesday	Year: 2024
Day of Week Number: 4	Month Number: 6
Day of Week Number 7th: 3	Day of Month: 12

getDayOfWeekNumber()

CODE

```
# getDayOfWeekNumber.py

import datetime as dt

def getDayOfWeekNumber():
    now = dt.datetime.now()

    # sunday returns as 6
    dayOfWeekNumber = now.weekday()
```

Topalian Python JavaScript Navigator

Military Time: 22:17:28	JS
Date Time: 06-12-24 10:17 PM	Date: 2024-06-12
Year: 2024	Time: 10:17:29 PM
Month Number: 6	Military Time: 22:17:29
Day of Month: 12	Date Time: 6/12/2024, 10:17:29 PM
Day of Week Name: Wednesday	Year: 2024
Day of Week Number: 4	Month Number: 6
Day of Week Number 7th: 3	Day of Month: 12

CODE

```
# getDayOfWeekNumber7.py

import datetime as dt

def getDayOfWeekNumber7():
    now = dt.datetime.now()

    # monday is 0, sunday is 6
    dayOfWeekNumber = now.weekday()
```

Topalian Python JavaScript Navigator

The screenshot shows a window titled "Topalian Python JavaScript Navigator". The interface is divided into two main sections: "PY" on the left and "JS" on the right, both set against a background of a cloudy sunset.

PY

- Date: 2024-06-12
- Time: 10:17:28 PM
- Military Time: 22:17:28
- Date Time: 06-12-24 10:17 PM
- Year: 2024
- Month Number: 6
- Day of Month: 12

JS

- Date: 2024-06-12
- Time: 10:17:29 PM
- Military Time: 22:17:29
- Date Time: 6/12/2024, 10:17:29 PM
- Year: 2024
- Month Number: 6
- Day of Month: 12

CODE

```
function getDateJS()
{
    let currentDate = new Date();

    let year = currentDate.getFullYear();

    let month = (currentDate.getMonth() + 1).toString();

    // add a zero
}
```

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12
Time: 10:17:28 PM
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

JS

Date: 2024-06-12
Time: 10:17:29 PM
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12

getTime12JS()

```
function getTime12JS()
{
    let currentDate = new Date();

    let hours = currentDate.getHours();
    let minutes = currentDate.getMinutes();
    let seconds = currentDate.getSeconds();
    let amOrPm;
```

PY

Date: 2024-06-12
Time: 10:17:28 PM
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

JS

Date: 2024-06-12
Time: 10:17:29 PM
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 gettime24JS()
Year: 2024
Month Number: 6
Day of Month: 12

CODE

```
function getTime24JS()
{
    let currentDate = new Date();

    let hours = currentDate.getHours();
    let minutes = currentDate.getMinutes();
    let seconds = currentDate.getSeconds();

    // add a zero at the beginning
}
```

Topalian Python JavaScript Navigator

The screenshot shows a window titled "Topalian Python JavaScript Navigator". It has two main sections: "PY" on the left and "JS" on the right. Both sections display various date and time variables. A code editor at the bottom contains a function definition for "getDateTimeJS".

Section	Variable	Value
PY	Date	2024-06-12
PY	Time	10:17:28 PM
PY	Military Time	22:17:28
PY	Date Time	06-12-24 10:17 PM
PY	Year	2024
PY	Month Number	6
PY	Day of Month	12
JS	Date	2024-06-12
JS	Time	10:17:29 PM
JS	Military Time	22:17:29
JS	Date Time	6/12/2024, 10:17:29 PM
JS	Year	2024
JS	Month Number	6
JS	Day of Month	12

```
function getDateTimeJS()
{
    let currentDate = new Date();

    return currentDate.toLocaleString();
}
```

Topalian Python JavaScript Navigator

The screenshot shows a window titled "Topalian Python JavaScript Navigator". It has two main sections: "PY" on the left and "JS" on the right. Both sections display the same set of date and time variables. The "PY" section includes a "CODE" block below it.

Variable	Value (PY)	Value (JS)
Date	2024-06-12	Date: 2024-06-12
Time	10:17:28 PM	Time: 10:17:29 PM
Military Time	22:17:28	Military Time: 22:17:29
Date Time	06-12-24 10:17 PM	Date Time: 6/12/2024, 10:17:29 PM
Year	2024	Year: 2024
Month Number	6	Month Number: 6
Day of Month	12	Day of Month: 12

PY

Date: 2024-06-12
Time: 10:17:28 PM
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

JS

Date: 2024-06-12
Time: 10:17:29 PM
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12

CODE

```
function getYearJS()
{
    let currentDate = new Date();

    let year = currentDate.getFullYear();

    return year;
}
```

PY

Date: 2024-06-12

Time: 10:17:28 PM

Military Time: 22:17:28

Date Time: 06-12-24 10:17 PM

Year: 2024

Month Number: 6

Day of Month: 12

Military Time: 22:17:29

Date Time: 6/12/2024, 10:17:29 PM

Year: 2024

Month Number: 6

Day of Month: 12

getMonthNumberJS()

Day of Week Name: Wednesday

Day of Week Number: 4

Day of Week Number 7th: 3

CODE

```
function getMonthNumberJS()
{
    let currentDate = new Date();

    monthNumber = currentDate.getMonth();

    monthNumberAdjusted = monthNumber + 1;

    return monthNumberAdjusted;
```

PY

Date: 2024-06-12

Time: 10:17:28 PM

Military Time: 22:17:28

Date Time: 06-12-24 10:17 PM

Year: 2024

Month Number: 6

Day of Month: 12

Military Time: 22:17:29

Date Time: 6/12/2024, 10:17:29 PM

Year: 2024

Month Number: 6

Day of Month: 12

Day of Week Name: Wednesday

getDayOfMonthJS()

Day of Week Number: 4

Day of Week Number 7th: 3

CODE

```
function getDayOfMonthJS()
{
    let currentDate = new Date();

    let day = currentDate.getDate();

    return day;
}
```

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12
Time: 10:17:28 PM
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

CODE

```
function getDayOfWeekNameJS()
{
    let currentDate = new Date();

    // 0-6
    let dayNumber = currentDate.getDay();

    let daysOfWeek = ["Sunday", "Monday", "Tuesday", "Wednesday",
    "Thursday", "Friday", "Saturday"];
```

Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12
Day of Week Name: Wednesday
Day of Week Number: 4
Day of Week Number 7th: 3

getDayOfWeekNameJS()

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12
Time: 10:17:28 PM
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12
Day of Week Name: Wednesday
Day of Week Number: 4
Day of Week Number 7th: 3 getDayOfWeekNumberJS()

CODE

```
function getDayOfWeekNumberJS()
{
    let currentDate = new Date();

    // 0-6
    let dayNumber = currentDate.getDay();

    dayNumberAdjusted = dayNumber + 1;
```

Topalian Python JavaScript Navigator

PY

Date: 2024-06-12
Time: 10:17:28 PM
Military Time: 22:17:28
Date Time: 06-12-24 10:17 PM
Year: 2024
Month Number: 6
Day of Month: 12

CODE

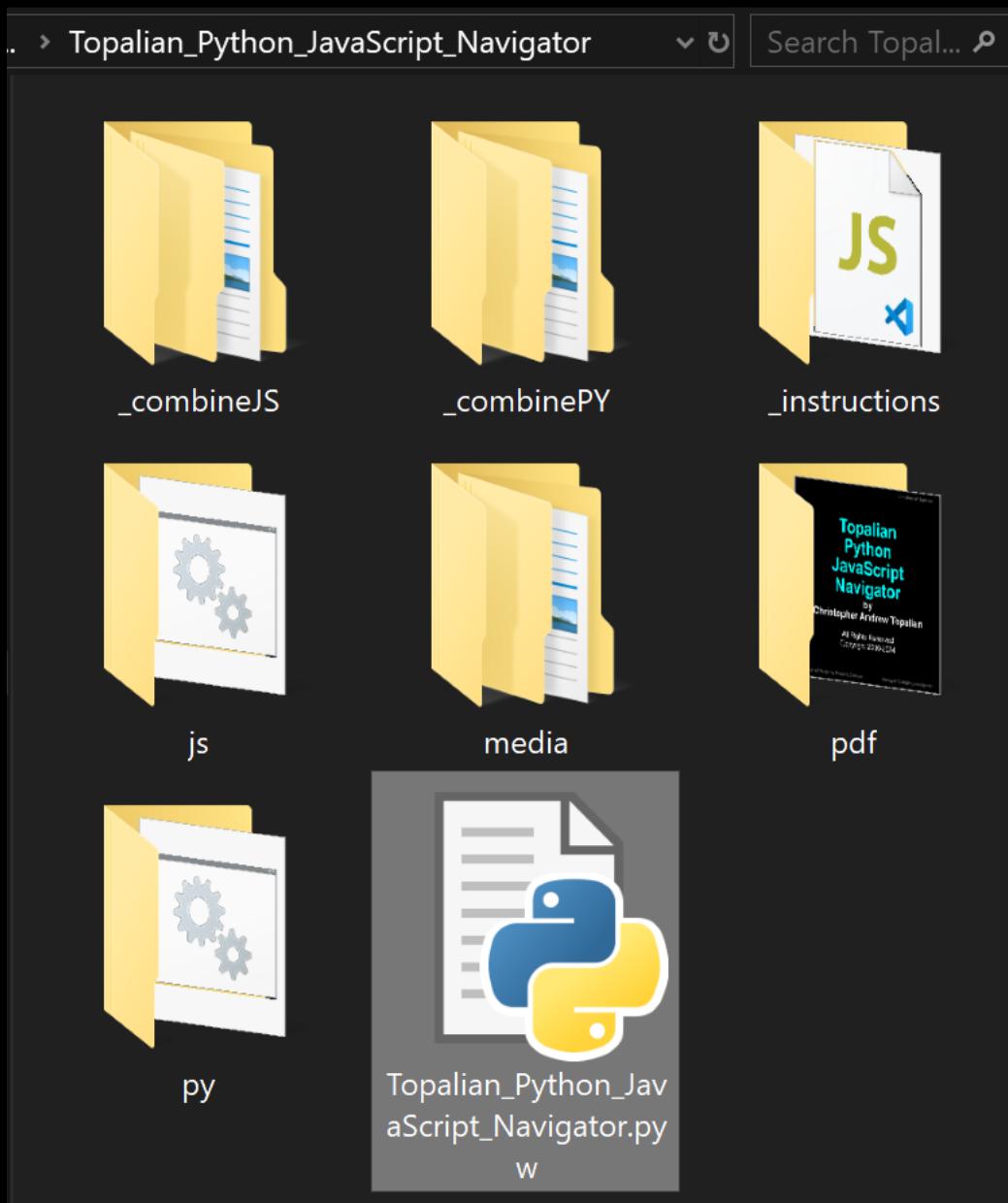
```
function getDayOfWeekNumber7JS()
{
    let currentDate = new Date();

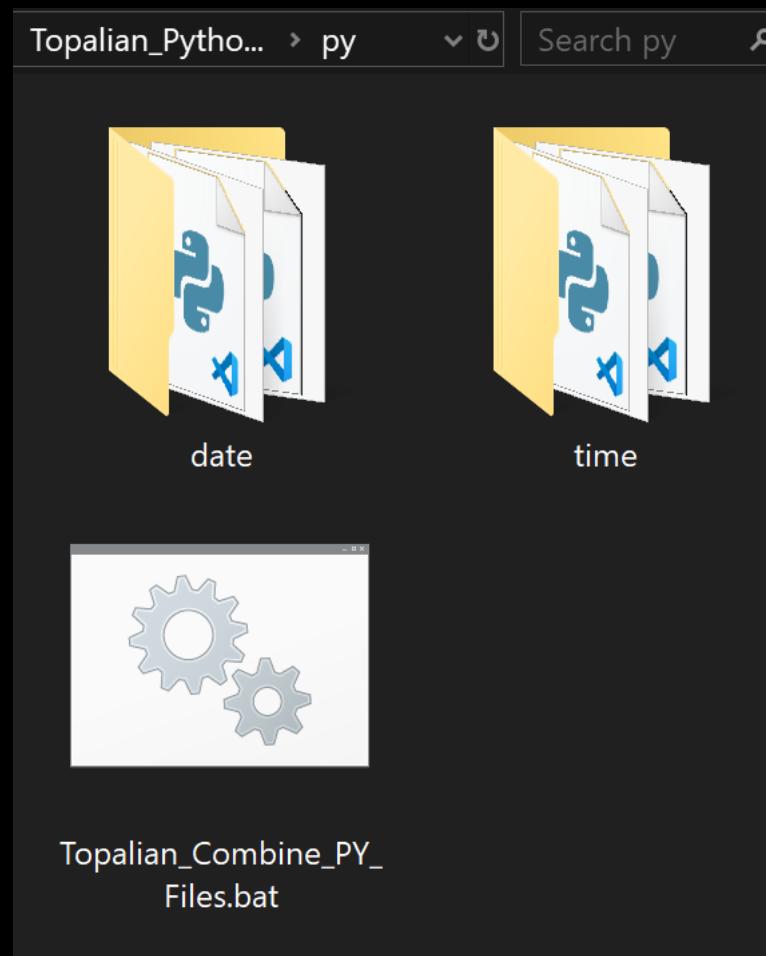
    let dayOfWeek = currentDate.getDay();

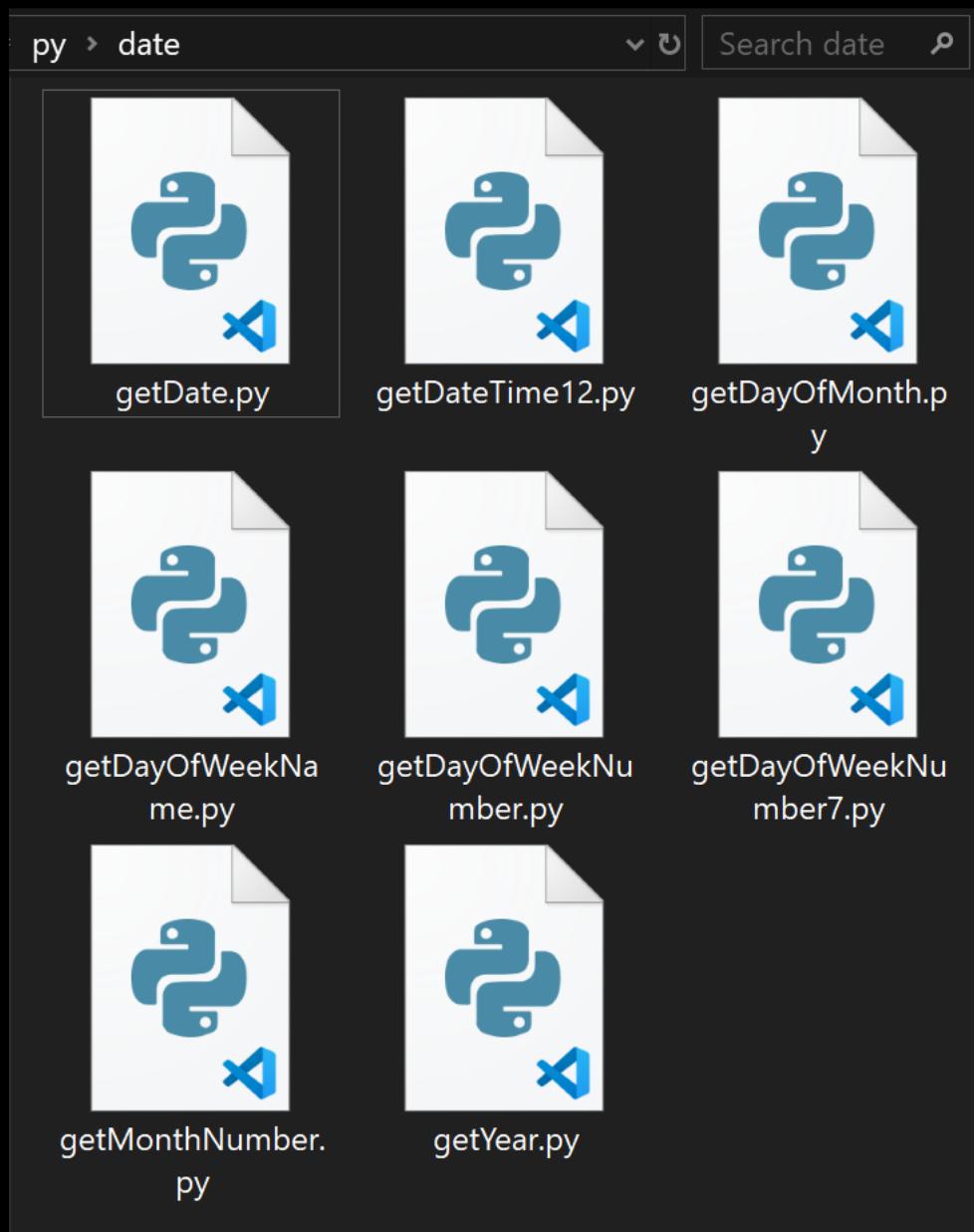
    // make Sunday be 6, Monday 0
    dayOfWeek = (dayOfWeek + 6) % 7;
```

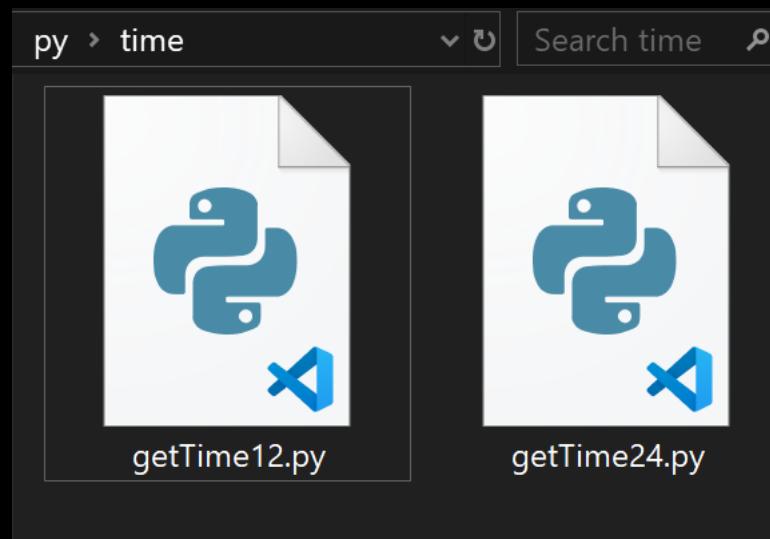
Military Time: 22:17:29
Date Time: 6/12/2024, 10:17:29 PM
Year: 2024
Month Number: 6
Day of Month: 12
Day of Week Name: Wednesday
Day of Week Number: 4
Day of Week Number 7th: 3

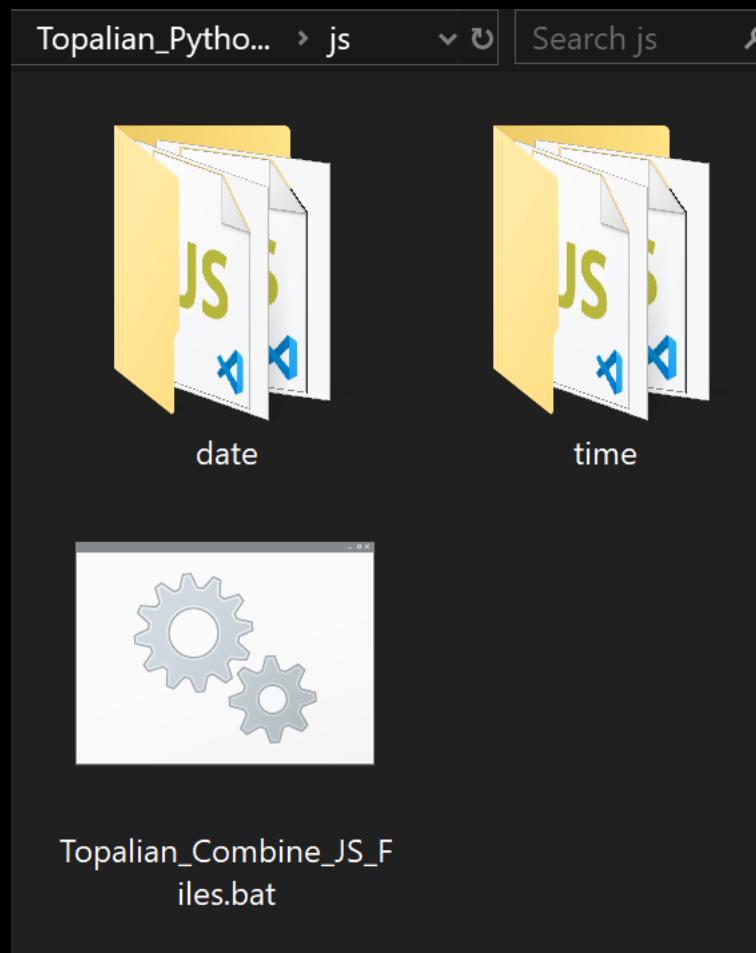
getDayOfWeekNumber7JS()

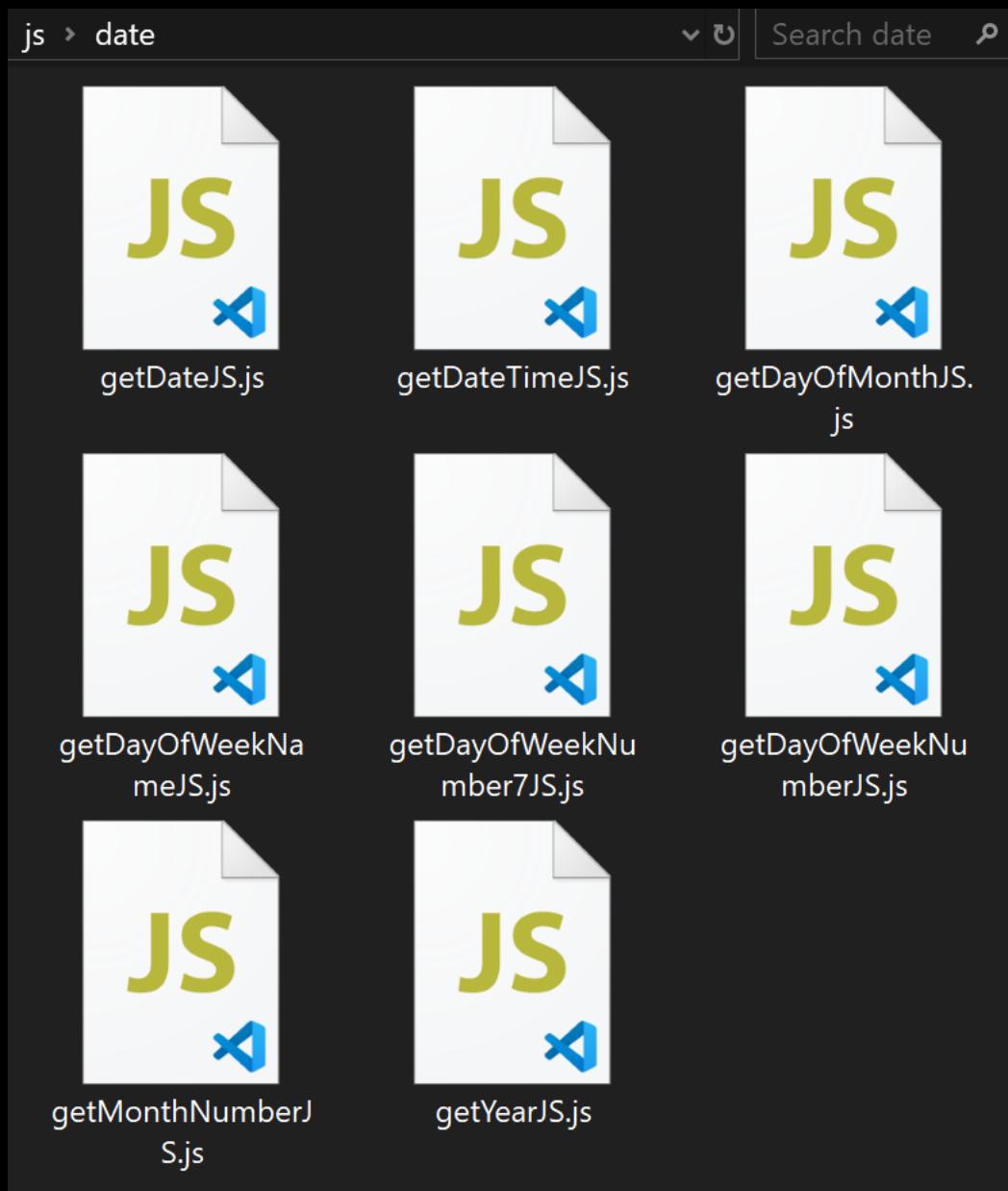


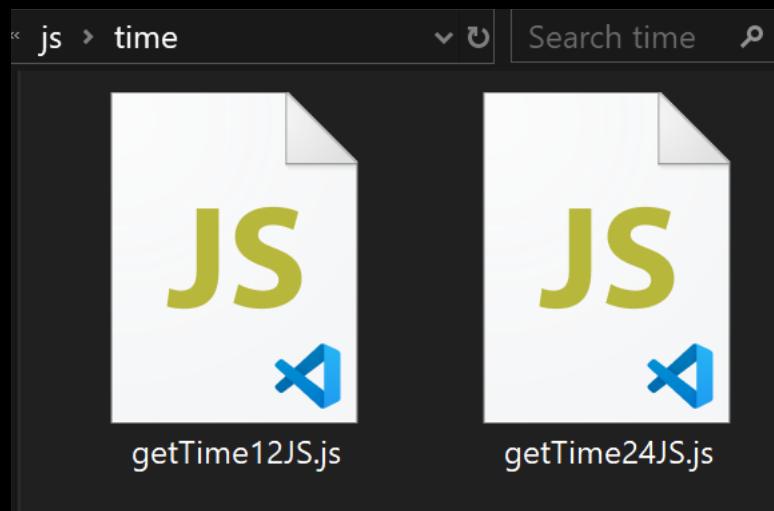












```
# Dedicated to God the Father
# All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024
# https://github.com/ChristopherTopalian
#
https://github.com/ChristopherAndrewTopalian

# Topalian_Python_JavaScript_Navigator.pyw
# Version 001 - (2024-06-13)

# pip install pywebview

import webview
import base64

from py.date.getDate import getDate
```

```
from py.date.getDateTime12 import  
getDateTime12  
from py.date.getDayOfMonth import  
getDayOfMonth  
from py.date.getDayOfWeekName import  
getDayOfWeekName  
from py.date.getDayOfWeekNumber import  
getDayOfWeekNumber  
from py.date.getDayOfWeekNumber7 import  
getDayOfWeekNumber7  
from py.date.getMonthNumber import  
getMonthNumber  
from py.date.getYear import getYear
```

```
from py.time.getTime12 import getTime12  
from py.time.getTime24 import getTime24
```

##

Our JS is imported below

```
with open("js/date/getDateJS.js", "r") as file:  
    getDateJS = file.read()
```

```
with open("js/date/getDateTimeJS.js", "r") as  
file:  
    getTimeJS = file.read()
```

```
with open("js/date/getDayOfMonthJS.js", "r")  
as file:  
    getDayOfMonthJS = file.read()
```

```
with open("js/date/getDayOfWeekNameJS.js",  
"r") as file:  
    getDayOfWeekNameJS = file.read()
```

```
with  
open("js/date/getDayOfWeekNumber7JS.js",  
"r") as file:  
    getDayOfWeekNumber7JS = file.read()
```

```
with  
open("js/date/getDayOfWeekNumberJS.js",  
"r") as file:  
    getDayOfWeekNumberJS = file.read()
```

```
with open("js/date/getMonthNumberJS.js",  
"r") as file:  
    getMonthNumberJS = file.read()
```

```
with open("js/date/getYearJS.js", "r") as file:  
    getYearJS = file.read()
```

```
with open("js/time/getTime12JS.js", "r") as  
file:
```

```
    getTime12JS = file.read()
```

```
with open("js/time/getTime24JS.js", "r") as  
file:
```

```
    getTime24JS = file.read()
```

```
##
```

```
def getFileContent(filePath):  
    try:  
        with open(filePath, 'r') as file:  
            return file.read()  
    except FileNotFoundError:  
        return "File not found."  
    except Exception as e:  
        return str(e)
```

```
##
```

```
# reads texture file and encodes it as base64
def readImageAsBase64(filePath):
    with open(filePath, "rb") as file:
        imageData = file.read()
        encodedImage =
base64.b64encode(imageData).decode("utf-
8")
    return encodedImage
```

```
bgTexturePath = "media/textures/bg001.jpg"
bglImage =
readImageAsBase64(bgTexturePath)
```

```
##
```

```
htmlContent = f"""
<html>
<head>
<title> Topalian Python JavaScript Navigator
</title>

<style>

body
{{{
    background-color: rgb(0, 0, 0);
    font-family: Arial;
    color: rgb(255, 255, 255);
}

#bg
{{{
    position: fixed;
```

```
top: 0px;  
left: 0px;  
width: 100%;  
height: 100%;  
object-fit: cover;  
z-index: -1;  
}}}
```

```
.textStyle001  
{  
    width: 300px;  
    margin: 2px;  
    border: solid 1px rgb(100, 100, 100);  
    border-radius: 8px;  
    padding-left: 10px;  
    padding-right: 10px;  
    background-color: rgb(0, 0, 0);  
    font-family: Arial;
```

```
font-size: 16px;  
font-weight: bold;  
color: rgb(150, 150, 150);  
overflow: hidden;  
cursor: pointer;  
}}}
```

```
.textStyle001:hover  
{  
  border-color: rgb(0, 255, 255);  
}}
```

```
#code  
{  
  width: 99%;  
  height: 130vh;  
  margin: 2px;  
  border: solid 1px rgb(100, 100, 100);
```

```
border-radius: 8px;  
padding-left: 10px;  
padding-right: 10px;  
padding-top: 5px;  
padding-bottom: 5px;  
background-color: rgb(0, 0, 0);  
font-family: Arial;  
font-size: 24px;  
font-weight: bold;  
color: rgb(220, 220, 220);  
overflow-y: scroll;  
cursor: pointer;  
}  
  
* {{  
    scrollbar-width: thin;  
    scrollbar-color: rgb(100, 100, 100) rgb(0, 0,  
0);
```

}

</style>

<script>

```
function ge(whichId)
{{  
    let result =
document.getElementById(whichId);
```

```
    return result;
}}
```

```
function ce(whichType)
{{  
    let result =
document.createElement(whichType);
```

```
    return result;  
}  
  
function ba(whichElement)  
{  
    let result =  
    document.body.append(whichElement);  
  
    return result;  
}  
  
//-//
```

// since we don't use two {{
// when we defined our functions
// we have to include these brackets
// as shown below:

```
{ getDateJS }  
{ getDateTimeJS }  
{ getDayOfMonthJS }  
{ getDayOfWeekNameJS }  
{ getDayOfWeekNumberJS }  
{ getDayOfWeekNumber7JS }  
{ getMonthNumberJS }  
{ getYearJS }
```

```
{ getTime12JS }  
{ getTime24JS }
```

//-//

```
function makeInterface()  
{  
    let mainDiv = ce('div');  
    mainDiv.id = 'mainDiv';
```

ba(mainDiv);

//-//

```
let divContainer = ce('div');
divContainer.id = 'divContainer';
divContainer.style.display = 'grid';
divContainer.style.gridTemplateColumns =
'repeat(2, 1fr)';
divContainer.style.gap = '2.5px';
mainDiv.append(divContainer);
```

//-//

```
// leftContainer
let leftContainer = ce('div');
leftContainer.id = 'leftContainer';
leftContainer.style.overflowY = 'scroll';
```

```
leftContainer.style.height = '200px';
divContainer.append(leftContainer);
```

//-//

```
let pyLabel = ce('div');
pyLabel.id = 'pyLabel';
pyLabel.textContent = 'PY';
pyLabel.style.fontWeight = 'bold';
leftContainer.append(pyLabel);
```

//-//

```
let datePY = ce('input');
datePY.id = 'datePY';
datePY.className = 'textStyle001';
datePY.value = 'Date: ' + '{getDate()}';
datePY.title = 'getDate()';
```

```
datePY.onclick = function()
{
    ge('code').value =
`{getFileContent('py/date/getDate.py')}`;
};

leftContainer.append(datePY);

//--
```

```
let time12PY = ce('input');
time12PY.id = 'time12PY';
time12PY.className = 'textStyle001';
time12PY.value = 'Time: ' + '{getTime12()}';
time12PY.title = 'getTime12()';
time12PY.onclick = function()
{
    ge('code').value =
`{getFileContent('py/time/getTime12.py')}`;
```

```
});  
leftContainer.append(time12PY);
```

//-//

```
let time24PY = ce('input');  
time24PY.id = 'time24PY';  
time24PY.className = 'textStyle001';  
time24PY.value = 'Military Time: ' +  
'{getTime24()}';  
time24PY.title = 'getTime24()';  
time24PY.onclick = function()  
{  
    ge('code').value =  
`{getFileContent('py/time/getTime24.py')}`;  
};  
leftContainer.append(time24PY);
```

//-//

```
let dateTIme12PY = ce('input');
dateTIme12PY.id = 'dateTIme12PY';
dateTIme12PY.className = 'textStyle001';
dateTIme12PY.value = 'Date Time: ' +
'{getDateTime12()}';
dateTIme12PY.title = 'getDateTime12()';
dateTIme12PY.onclick = function()
{
    ge('code').value =
'{getFileContent('py/date/getDateTime12.py')}'
;
}
leftContainer.append(dateTIme12PY);
```

//-//

```
let yearPY = ce('input');
yearPY.id = 'yearPY';
yearPY.className = 'textStyle001';
yearPY.value = 'Year: ' + '{getYear()}';
yearPY.title = 'getYear()';
yearPY.onclick = function()
{
    ge('code').value =
`{getFileContent('py/date/getYear.py')}`;
};
leftContainer.append(yearPY);
```

//-//

```
let monthNumberPY = ce('input');
monthNumberPY.id = 'monthNumberPY';
monthNumberPY.className =
'textStyle001';
```

```
monthNumberPY.value = 'Month Number: '
+ '{getMonthNumber()}';
monthNumberPY.title =
'getMonthNumber()';
monthNumberPY.onclick = function()
{
    ge('code').value =
`{getFileContent('py/date/getMonthNumber.py
')}`;
};
leftContainer.append(monthNumberPY);
```

//-//

```
let dayOfMonthPY = ce('input');
dayOfMonthPY.id = 'dayOfMonthPY';
dayOfMonthPY.className = 'textStyle001';
```

```
dayOfMonthPY.value = 'Day of Month: ' +  
'{getDayOfMonth()}';  
dayOfMonthPY.title = 'getDayOfMonth()';  
dayOfMonthPY.onclick = function()  
{  
    ge('code').value =  
`{getFileContent('py/date/getDayOfMonth.py')}`;  
};  
leftContainer.append(dayOfMonthPY);
```

//-//

```
let dayOfWeekNamePY = ce('input');  
dayOfWeekNamePY.id =  
'dayOfWeekNamePY';  
dayOfWeekNamePY.className =  
'textStyle001';
```

```
dayOfWeekNamePY.value = 'Day of Week  
Name: ' + '{getDayOfWeekName()}';  
dayOfWeekNamePY.title =  
'getDayOfWeekName()';  
dayOfWeekNamePY.onclick = function()  
{  
    ge('code').value =  
`{getFileContent('py/date/getDayOfWeekNam  
e.py')}`;  
};  
leftContainer.append(dayOfWeekNamePY);
```

//-//

```
let dayOfWeekNumberPY = ce('input');  
dayOfWeekNumberPY.id =  
'dayOfWeekNumberPY';
```

```
dayOfWeekNumberPY.className =
'textStyle001';
    dayOfWeekNumberPY.value = 'Day of Week
Number: ' + '{getDayOfWeekNumber()}';
    dayOfWeekNumberPY.title =
'getDayOfWeekNumber()';
    dayOfWeekNumberPY.onclick = function()
{{
    ge('code').value =
`{getFileContent('py/date/getDayOfWeekNum
ber.py')}`;
}}
;

leftContainer.append(dayOfWeekNumberPY);

//--//

let dayOfWeekNumber7PY = ce('input');
```

```
dayOfWeekNumber7PY.id =
'dayOfWeekNumber7PY';
dayOfWeekNumber7PY.className =
'textStyle001';
dayOfWeekNumber7PY.value = 'Day of
Week Number 7th: ' +
'{getDayOfWeekNumber7()}';
dayOfWeekNumber7PY.title =
'getDayOfWeekNumber7()';
dayOfWeekNumber7PY.onclick = function()
{
    ge('code').value =
`{getFileContent('py/date/getDayOfWeekNum
ber7.py')}`;
};

leftContainer.append(dayOfWeekNumber7PY)
;
```

//----//

```
// rightContainer
let rightContainer = ce('div');
rightContainer.id = 'rightContainer';
rightContainer.style.overflowY = 'scroll';
rightContainer.style.height = '200px';
divContainer.append(rightContainer);
```

//-//

```
let jsLabel = ce('div');
jsLabel.id = 'jsLabel';
jsLabel.textContent = 'JS';
jsLabel.style.fontWeight = 'bold';
rightContainer.append(jsLabel);
```

//-//

```
let dateJS = ce('input');
dateJS.id = 'dateJS';
dateJS.className = 'textStyle001';
dateJS.value = 'Date: ' + getDateJS();
dateJS.title = 'getDateJS()';
dateJS.onclick = function()
{{
    ge('code').value = getDateJS;
}};
rightContainer.append(dateJS);
```

//-//

```
let time12JS = ce('input');
time12JS.id = 'time12JS';
time12JS.className = 'textStyle001';
```

```
time12JS.value = 'Time: ' + getTime12JS();
time12JS.title = 'getTime12JS()';
time12JS.onclick = function()
{
    ge('code').value = getTime12JS();
};
rightContainer.append(time12JS);

//--//
```

```
let time24JS = ce('input');
time24JS.id = 'time24JS';
time24JS.className = 'textStyle001';
time24JS.value = 'Military Time: ' +
getTime24JS();
time24JS.title = 'getTime24JS()';
time24JS.onclick = function()
{
```

```
    ge('code').value = getTime24JS;  
}};
```

```
rightContainer.append(time24JS);
```

```
//-//
```

```
let dateTImeJS = ce('input');  
dateTImeJS.id = 'dateTImeJS';  
dateTImeJS.className = 'textStyle001';  
dateTImeJS.value = 'Date Time: ' +  
getDateTimeJS();  
dateTImeJS.title = 'getDateTimeJS()';  
dateTImeJS.onclick = function()  
{  
    ge('code').value = getDateTimeJS;  
};  
rightContainer.append(dateTImeJS);
```

//-//

```
let yearJS = ce('input');
yearJS.id = 'yearJS';
yearJS.className = 'textStyle001';
yearJS.value = 'Year: ' + getYearJS();
yearJS.title = 'getYearJS()';
yearJS.onclick = function()
{
    ge('code').value = getYearJS();
};
rightContainer.append(yearJS);
```

//-//

```
let monthNumberJS = ce('input');
monthNumberJS.id = 'monthNumberJS';
```

```
monthNumberJS.className =
'textStyle001';
monthNumberJS.value = 'Month Number: '
+ getMonthNumberJS();
monthNumberJS.title = 'getMonthNumberJS()';
monthNumberJS.onclick = function()
{
    ge('code').value = getMonthNumberJS();
};
rightContainer.append(monthNumberJS);

//--
```

```
let dayOfMonthNumberJS = ce('input');
dayOfMonthNumberJS.id =
'dayOfMonthNumberJS';
```

```
dayOfMonthNumberJS.className =  
'textStyle001';  
    dayOfMonthNumberJS.value = 'Day of  
Month: ' + getDayOfMonthJS();  
    dayOfMonthNumberJS.title =  
'getDayOfMonthJS()';  
    dayOfMonthNumberJS.onclick = function()  
{  
        ge('code').value = getDayOfMonthJS;  
    };
```

```
rightContainer.append(dayOfMonthNumberJ  
S);
```

//-//

```
let dayOfWeekNameJS = ce('input');
```

```
dayOfWeekNameJS.id =
'dayOfWeekNameJS';
dayOfWeekNameJS.className =
'textStyle001';
dayOfWeekNameJS.value = 'Day of Week
Name: ' + getDayOfWeekNameJS();
dayOfWeekNameJS.title =
'getDayOfWeekNameJS()';
dayOfWeekNameJS.onclick = function()
{
    ge('code').value =
getDayOfWeekNameJS;
};

rightContainer.append(dayOfWeekNameJS);

//--
```

```
let dayOfWeekNumberJS = ce('input');
dayOfWeekNumberJS.id =
'dayOfWeekNumberJS';
dayOfWeekNumberJS.className =
'textStyle001';
dayOfWeekNumberJS.value = 'Day of Week
Number: ' + getDayOfWeekNumberJS();
dayOfWeekNumberJS.title =
'getDayOfWeekNumberJS()';
dayOfWeekNumberJS.onclick = function()
{
    ge('code').value =
getDayOfWeekNumberJS;
};

rightContainer.append(dayOfWeekNumberJS)
;
```

//-//

```
let dayOfWeekNumber7JS = ce('input');
dayOfWeekNumber7JS.id =
'dayOfWeekNumber7JS';
dayOfWeekNumber7JS.className =
'textStyle001';
dayOfWeekNumber7JS.value = 'Day of
Week Number 7th: ' +
getDayOfWeekNumber7JS();
dayOfWeekNumber7JS.title =
'getDayOfWeekNumber7JS()';
dayOfWeekNumber7JS.onclick = function()
{
    ge('code').value =
getDayOfWeekNumber7JS;
};
```

```
rightContainer.append(dayOfWeekNumber7JS);
```

//-//

```
let hr001 = ce('hr');
mainDiv.append(hr001);
```

//-//

```
// centerContainer
let centerContainer = ce('div');
centerContainer.id = 'centerContainer';
centerContainer.style.overflowY = 'scroll';
centerContainer.style.height = '270px';
mainDiv.append(centerContainer);
```

//-//

```
let codeLabel = ce('div');
codeLabel.id = 'codeLabel';
codeLabel.textContent = 'CODE';
codeLabel.style.fontWeight = 'bold';
centerContainer.append(codeLabel);
```

//-//

```
let codeTextarea = ce('textarea');
codeTextarea.id = 'code';
centerContainer.append(codeTextarea);
}
```

//-//

```
window.onload = function()
```

```
{{
    makeInterface();
}};
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<img src = "data:image/jpeg;base64,
{bgImage}" alt = "bgTexture" id = 'bg'>
```

```
</body>
```

```
</html>
```

.....

```
if __name__ == "__main__":
    # we can start the window at a small size
    # to avoid flashing white on the screen
    # and then maximize it manually
    widthOfWindow = 1200 #20
    heightOfWindow = 670 # 20

    # create window with HTML content
    webview.create_window("Topalian Python
    JavaScript Navigator", html=htmlContent,
    width=widthOfWindow,
    height=heightOfWindow)

    # start pywebview event loop
    # debug True enables console
    webview.start(debug=True)
```

```
# getDate.py

import datetime as dt

def getDate():
    today = dt.date.today()

    return today

# print(getDate())
# input("")

#-----#
# 2024-06-10
#-----#
```

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```
# All Rights Reserved Christopher Andrew  
Topalian Copyright 2000-2024  
# getDate.py  
# https://github.com/ChristopherTopalian  
#  
https://github.com/ChristopherAndrewTopalia  
n  
  
#*****#
```

```
# getDateTime12.py
```

```
import datetime as dt
```

```
def getDateTime12():
```

```
    currentDateTime = dt.datetime.now()
```

```
# formatted date MM-DD-YY
```

```
date = currentDateTime.strftime("%m-%d-%y")
```

```
# formatted time HH:MM AM/PM
```

```
time = currentDateTime.strftime("%I:%M %p")
```

```
formattedDateTime = date + " " + time
```

```
return formattedDateTime
```

```
# print(getDateTime12())
# input("")
```

```
#-----#
# 06-11-24 05:33 PM
#-----#
```

```
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# getDateTime12.py
# https://github.com/ChristopherTopalian
#
https://github.com/ChristopherAndrewTopalian
```

```
#*****#
```

```
# getDayOfMonth.py

import datetime as dt

def getDayOfMonth():
    currentDate = dt.datetime.now()

    dayNumber = currentDate.day

    return dayNumber

# print(getDayOfMonth())
# input()

#-----#
# 17
#-----#
```

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#*****#

```
# getDayOfWeekName.py
```

```
import datetime as dt
```

```
def getDayOfWeekName():  
    currentDate = dt.datetime.now()
```

```
# 0 is Monday, 6 is Sunday
```

```
dayOfWeek = currentDate.weekday()
```

```
days = ["Monday", "Tuesday",  
"Wednesday", "Thursday", "Friday",  
"Saturday", "Sunday"]
```

```
# get name of day using day of week index
```

```
dayName = days[dayOfWeek]
```

```
return dayName
```

```
#print(getDayOfWeekName())
#input("")
```

```
#-----#
# Monday
#-----#
```

```
# Dedicated to God the Father
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# getDayOfWeekName.py
# https://github.com/ChristopherTopalian
#
https://github.com/ChristopherAndrewTopalian
```

```
#*****#
```

```
# getDayOfWeekNumber.py
```

```
import datetime as dt
```

```
def getDayOfWeekNumber():  
    now = dt.datetime.now()
```

```
# sunday returns as 6
```

```
dayOfWeekNumber = now.weekday()
```

```
# adjust so that sunday returns as 0
```

```
dayOfWeekNumber = (dayOfWeekNumber  
+ 1) % 7
```

```
# adjust so that sunday returns as 1
```

```
dayOfWeekNumberAdjusted =  
dayOfWeekNumber + 1
```

return dayOfWeekNumberAdjusted

```
# print(getDayOfWeekNumber())
# input("")
```

```
#-----#
```

If today is Wednesday, it returns:

4

```
#-----#
```

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getDayOfWeekNumber.py

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#

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#*****#

```
# getDayOfWeekNumber7.py
```

```
import datetime as dt
```

```
def getDayOfWeekNumber7():
```

```
    now = dt.datetime.now()
```

```
# monday is 0, sunday is 6
```

```
dayOfWeekNumber = now.weekday()
```

```
# adjust so that monday is 1, sunday is 7
```

```
dayOfWeekNumberAdjusted =  
dayOfWeekNumber + 1
```

```
return dayOfWeekNumberAdjusted
```

```
# print(getDayOfWeekNumber7())
```

```
# input("")
```

#-----#

If today is Wednesday, it returns:

3

#-----#

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getDayOfWeekNumber7.py

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#

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n**

#*****#

```
# getMonthNumber.py
```

```
import datetime as dt
```

```
def getMonthNumber():  
    currentDate = dt.datetime.now()
```

```
# 1 is Jan, 12 is December  
month = currentDate.month
```

```
return month
```

```
# print(getMonthNumber())  
# input("")
```

```
#-----#  
# 6  
#-----#
```

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#*****#

```
# getYear.py
```

```
import datetime as dt
```

```
def getYear():  
    today = dt.date.today()
```

```
    year = today.year
```

```
    return year
```

```
# print(getYear())  
# input("")
```

```
#-----#  
# 2024  
#-----#
```

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#*****#

```
# getTime12.py
```

```
import datetime as dt
```

```
def getTime12():
```

```
    now = dt.datetime.now()
```

```
    currentTime = now.strftime("%I:%M:%S  
%p")
```

```
    return currentTime
```

```
# print(getTime12())
```

```
# input()
```

```
#-----#
```

```
# 05:42:06 PM
```

```
#-----#
```

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#*****#

```
# getTime24.py
```

```
import datetime as dt
```

```
def getTime24():
```

```
    now = dt.datetime.now()
```

```
    currentTime = now.strftime("%H:%M:%S")
```

```
    return currentTime
```

```
# print(getTime24())
```

```
# input()
```

```
#-----#
```

```
# 17:07:29
```

```
#-----#
```

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#*****#

```
// getDateJS.js
```

```
function getDateJS()
```

```
{
```

```
let currentDate = new Date();
```

```
let year = currentDate.getFullYear();
```

```
let month = (currentDate.getMonth() +  
1).toString();
```

```
// add a zero
```

```
if (month.length < 2)
```

```
{
```

```
    month = '0' + month;
```

```
}
```

```
let day = currentDate.getDate().toString();
```

```
// add a zero
if (day.length < 2)
{
    day = '0' + day;
}

let date = year + '-' + month + '-' + day;

return date;
}

// console.log(getDateJS());

//-----//
// 2024/06/07
//-----//
```

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// getDateJS.js
// <https://github.com/ChristopherTopalian>
//
<https://github.com/ChristopherAndrewTopalian>

//*****//

// **getDateTimeJS.js**

```
function getDateTimeJS()
{
    let currentDate = new Date();

    return currentDate.toLocaleString();
}
```

// **console.log(getDateTimeJS());**

```
//-----
// 5/18/2024, 12:33:45 AM
//-----
```

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```
// getDateTimeJS.js
// https://github.com/ChristopherTopalian
//
https://github.com/ChristopherAndrewTopalian
```

```
////////////////////////////////////////////////////////////////////////
```

// **getDayOfMonthJS.js**

```
function getDayOfMonthJS()
{
    let currentDate = new Date();

    let day = currentDate.getDate();

    return day;
}

// console.log(getDayOfMonthJS());

//-----
// 12
//-----
```

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// getDayOfMonthJS.js

// <https://github.com/ChristopherTopalian>

//

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n

*****//

```
// getDayOfWeekNameJS.js
```

```
function getDayOfWeekNameJS()
```

```
{
```

```
let currentDate = new Date();
```

```
// 0-6
```

```
let dayNumber = currentDate.getDay();
```

```
let daysOfWeek = ["Sunday", "Monday",  
"Tuesday", "Wednesday", "Thursday",  
"Friday", "Saturday"];
```

```
let dayName = daysOfWeek[dayNumber];
```

```
return dayName;
```

```
}
```

// console.log(getDayOfWeekNameJS());

//-----//

// Tuesday

//-----//

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// getDayOfWeekNameJS.js

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//

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n](https://github.com/ChristopherAndrewTopalia
n)

//////////

```
// getDayOfWeekNumber7JS.js
```

```
function getDayOfWeekNumber7JS()
```

```
{
```

```
    let currentDate = new Date();
```

```
    let dayOfWeekNumber =  
        currentDate.getDay();
```

```
    // make sunday be 6, monday 0
```

```
    dayOfWeekNumber = (dayOfWeekNumber  
        + 6) % 7;
```

```
    dayOfWeekNumberAdjusted =  
        dayOfWeekNumber + 1
```

```
    return dayOfWeekNumberAdjusted;
```

```
}
```

```
// console.log(getDayOfWeekNumber7JS());
```

```
//-----//
```

// If today is Wednesday, it returns:

```
// 3
```

```
//-----//
```

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// getDayOfWeekNumber7JS.js

// https://github.com/ChristopherTopalian

```
//
```

**https://github.com/ChristopherAndrewTopalia
n**

```
//*****//
```

```
// getDayOfWeekNumberJS.js

function getDayOfWeekNumberJS()
{
    let currentDate = new Date();

    // sunday returns as 0
    let dayOfWeekNumber =
currentDate.getDay();

    // adjust sunday to return as 1
    dayOfWeekNumberAdjusted =
dayOfWeekNumber + 1;

    return dayOfWeekNumberAdjusted;
}

// console.log(getDayOfWeekNumberJS());
```

//-----//

// If today is Wednesday, it returns:

// 4

//-----//

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// getDayOfWeekNumberJS.js

// <https://github.com/ChristopherTopalian>

//

<https://github.com/ChristopherAndrewTopalian>

//***//**

// getMonthNumberJS.js

```
function getMonthNumberJS()
{
    let currentDate = new Date();

    monthNumber = currentDate.getMonth();

    monthNumberAdjusted = monthNumber +
1;

    return monthNumberAdjusted;
}

// console.log(getMonthNumberJS());

//-----//
// 6
```

//-----//

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// getMonthNumberJS.js
// <https://github.com/ChristopherTopalian>
//
<https://github.com/ChristopherAndrewTopalia>
n

*****//

// getYearJS.js

```
function getYearJS()
{
    let currentDate = new Date();

    let year = currentDate.getFullYear();

    return year;
}
```

// console.log(getYearJS());

```
//------------------//
// 2024
//------------------//
```

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// getYearJS.js

// <https://github.com/ChristopherTopalian>

//

<https://github.com/ChristopherAndrewTopalia>
n

*****//

```
// getTime12JS.js
```

```
function getTime12JS()
{
    let currentDate = new Date();

    let hours = currentDate.getHours();
    let minutes = currentDate.getMinutes();
    let seconds = currentDate.getSeconds();
    let amOrPm;

    // am or pm
    if(hours < 12)
    {
        amOrPm = "AM";
    }
    else
    {
```

```
amOrPm = "PM"  
}  
  
// convert from military time  
if (hours > 12)  
{  
    hours -= 12;  
}  
else if (hours === 0)  
{  
    hours = 12;  
}
```

```
// add a zero  
if (hours < 10)  
{  
    hours = "0" + hours;  
}
```

```
if (minutes < 10)
{
    minutes = "0" + minutes;
}

if (seconds < 10)
{
    seconds = "0" + seconds;
}

let time = hours + ':' + minutes + ':' +
seconds + ' ' + amOrPm;

return time;
}

// console.log(getTime12JS());
```

//-----//

// 04:57:38 AM

//-----//

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// getTime12JS.js

// <https://github.com/ChristopherTopalian>

//

<https://github.com/ChristopherAndrewTopalia>
n

*****//

```
// getTime24JS.js
```

```
function getTime24JS()
{
    let currentDate = new Date();

    let hours = currentDate.getHours();
    let minutes = currentDate.getMinutes();
    let seconds = currentDate.getSeconds();
```

```
// add a zero at the beginning
```

```
if (hours < 10)
{
    hours = "0" + hours;
}
```

```
if (minutes < 10)
```

```
{
```

```
    minutes = "0" + minutes;  
}  
  
if (seconds < 10)  
{  
    seconds = "0" + seconds;  
}  
  
let time = hours + ':' + minutes + ':' +  
seconds;  
  
return time;  
}  
  
// console.log(getTime24JS());  
  
//-----//  
// 04:57:08
```

//-----//

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// getTime24JS.js
// <https://github.com/ChristopherTopalian>
//
<https://github.com/ChristopherAndrewTopalia>
n

*****//

How to Paste Code from a PDF that has Junk Characters.

When we paste from a pdf into VSCode,
it might look like this:

```
function combineJSFiles(directory,  
scriptFilename)  
{  
    let outputPath = path.join  
(directory, 'main.js');  
  
    let fileContents = [];
```

We can't leave those junk characters in the code, so we remove them with find/replace.

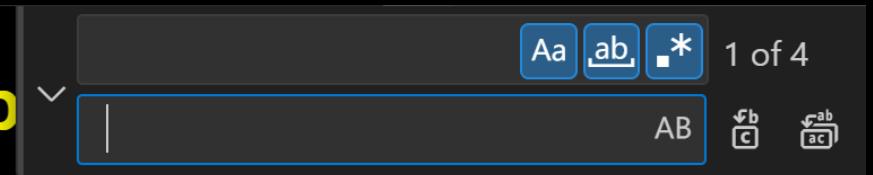
We Find 1 of the spaces.

We Replace All with the 1 space that we typed. This gets rid of the junk characters in the code.

We highlight 1 space with our mouse arrow:

```
function combineJSFiles(directory,  
scriptFilename)  
{  
    let outputPath = path.join  
(directory, 'main.js');  
  
    let fileContents = [];
```

We press Control + H to open the Find/Replace feature and Replace All with our own Space



```
function comb  
scriptFilename)  
{  
let outputPath = path.join  
(directory, 'main.js');  
  
let fileContents = [];
```

Here we see that the Find/Replace All has replaced the junk characters with our working spaces instead:

```
function combineJSFiles(directory,  
scriptFilename)
```

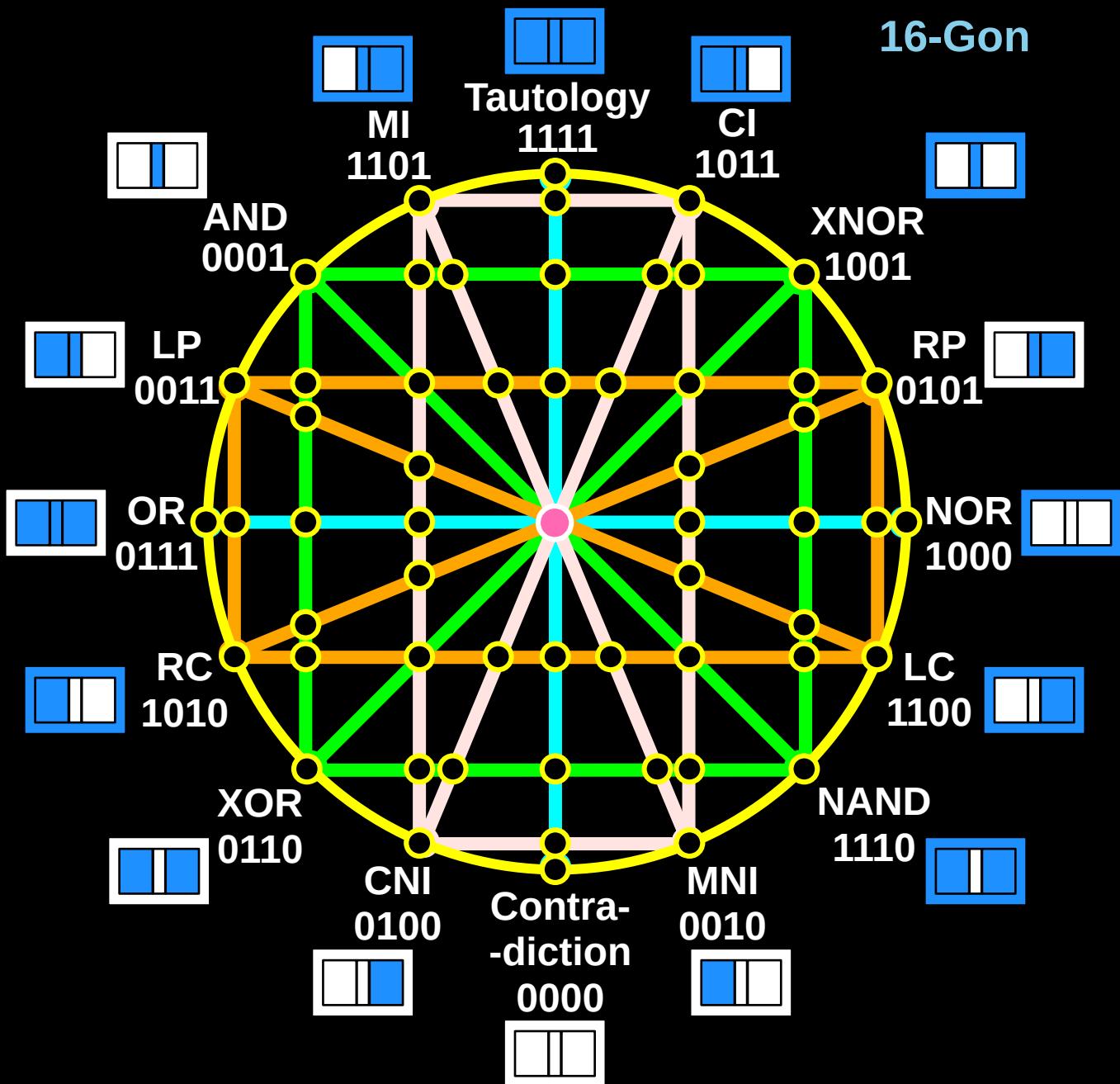
```
{
```

```
    let outputPath = path.join  
(directory, 'main.js');
```

```
    let fileContents = [];
```

Now that the code
has no junk characters,
it can run.

True Artificial Intelligence System



For More Tutorials:

[GitHub.com/ChristopherTopalian](https://github.com/ChristopherTopalian)

[GitHub.com/ChristopherAndrewTopalian](https://github.com/ChristopherAndrewTopalian)

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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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