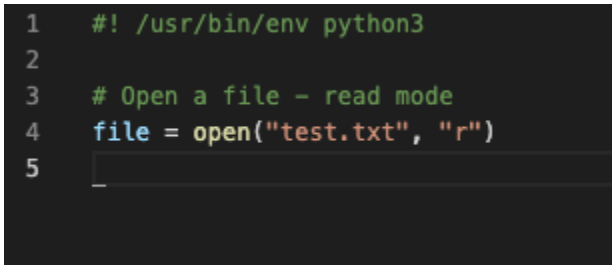
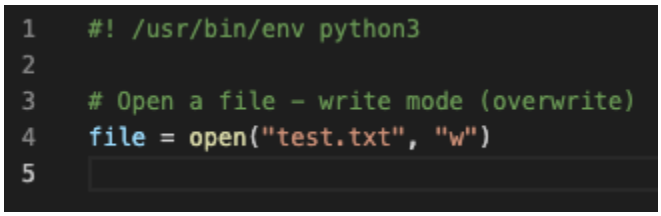
Screen Capture #1



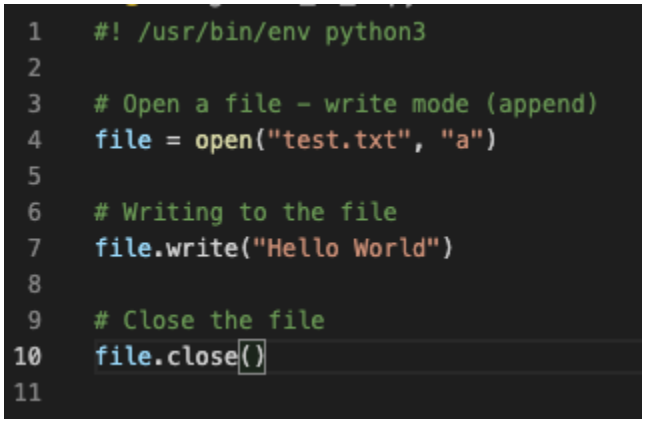
```
#! /usr/bin/env python3

# Open a file - read mode
file = open("test.txt", "r")
```

Screen Capture #2



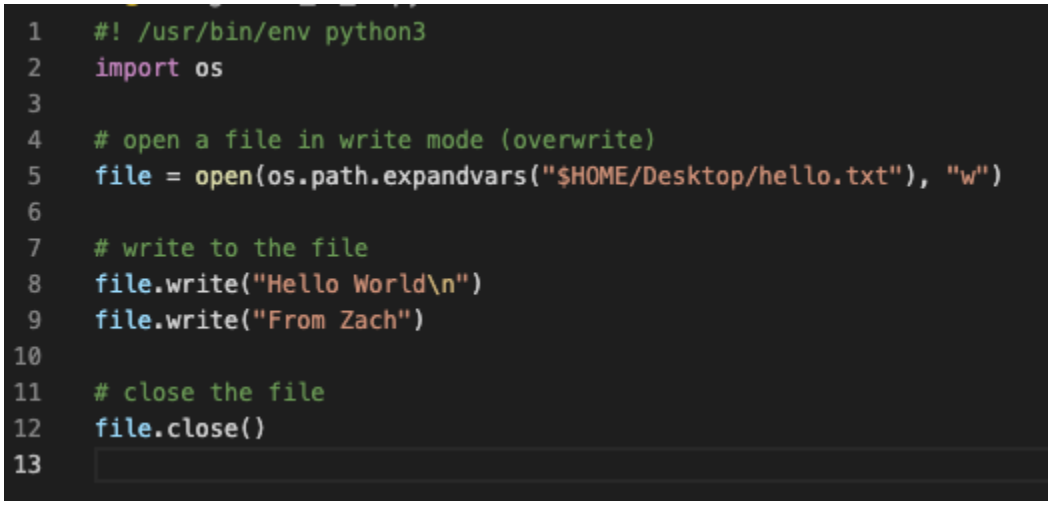
```
#! /usr/bin/env python3

# Open a file - write mode (overwrite)
file = open("test.txt", "w")
```

Screen Capture #3



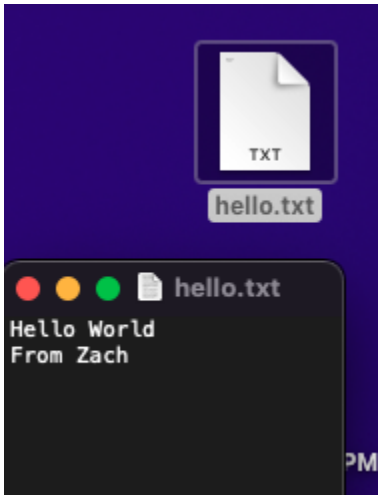
```
#! /usr/bin/env python3

# Open a file - write mode (append)
file = open("test.txt", "a")

# Writing to the file
file.write("Hello World")

# Close the file
file.close()
```

Screen Capture #4



```
#! /usr/bin/env python3
import os

# open a file in write mode (overwrite)
file = open(os.path.expandvars("$HOME/Desktop/hello.txt"), "w")

# write to the file
file.write("Hello World\n")
file.write("From Zach")

# close the file
file.close()
```

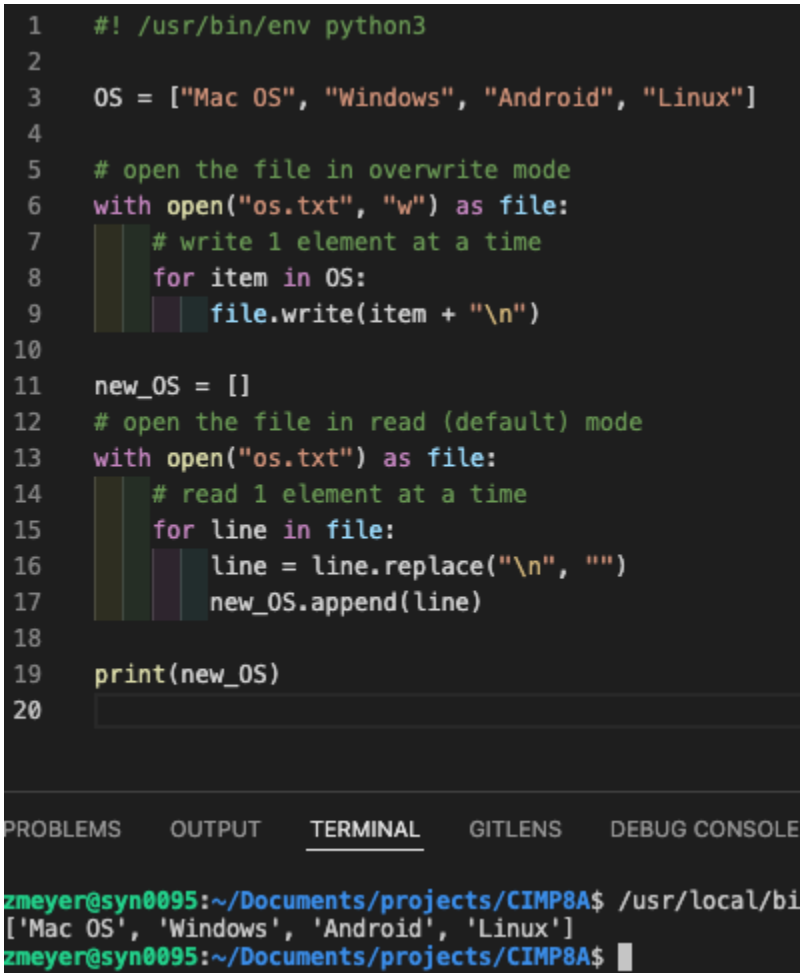
Screen Capture #5



Screen Capture #6

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ /usr/local/bin/python3.9
This will read and print the entire file
Hello World
From Zach

This will read the entire file and then print 1 line at a time
Hello World
From Zach

This will read file as a list and then print 1 list item at a time
Hello World
From Zach

This will read and print the file 1 line at a time
Hello World
From Zach
zmeyer@syn0095:~/Documents/projects/CIMP8A$
```

Screen Capture #7

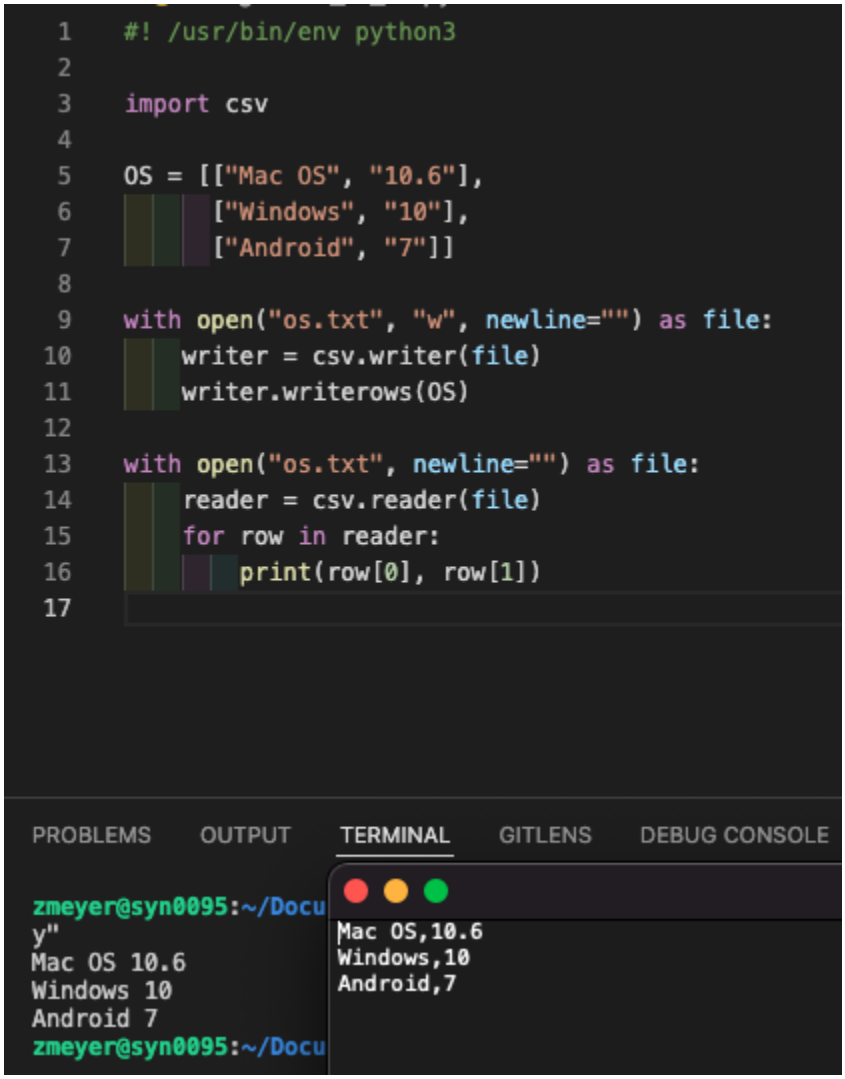


```
#! /usr/bin/env python3

OS = ["Mac OS", "Windows", "Android", "Linux"]

# open the file in overwrite mode
with open("os.txt", "w") as file:
    # write 1 element at a time
    for item in OS:
        file.write(item + "\n")

new_OS = []
# open the file in read (default) mode
with open("os.txt") as file:
    # read 1 element at a time
    for line in file:
        line = line.replace("\n", "")
        new_OS.append(line)

print(new_OS)
```

PROBLEMS OUTPUT TERMINAL GITLENS DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ /usr/local/bi
['Mac OS', 'Windows', 'Android', 'Linux']
zmeyer@syn0095:~/Documents/projects/CIMP8A$
```

Screen Capture #8



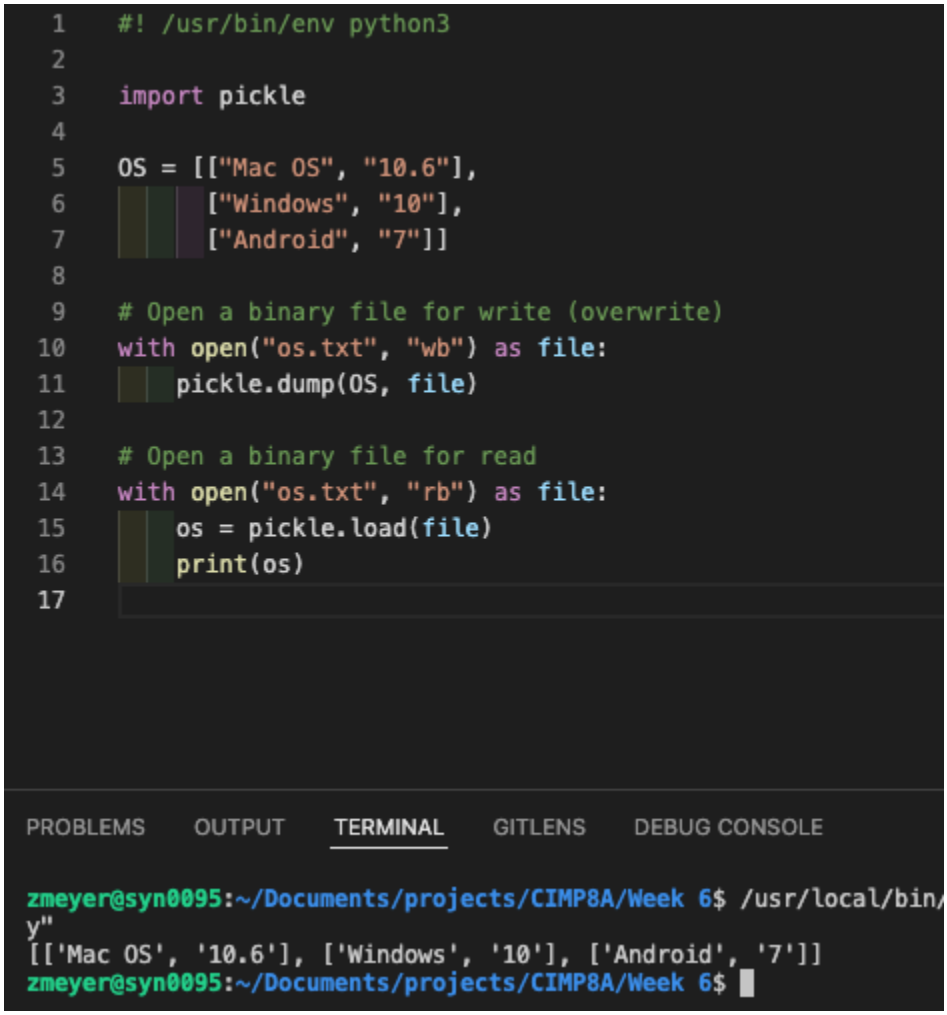
Screen Capture #9

```
#! /usr/bin/env python3

import csv

OS = [["Mac OS", "10.6"],
      ["Windows", "10"],
      ["Android", "7"]]

with open("os.txt", "w", newline="") as file:
    writer = csv.writer(file, delimiter="|")
    writer.writerows(OS)

with open("os.txt", newline="") as file:
    reader = csv.reader(file, delimiter="|")
    for row in reader:
        print(row[0], row[1])

```

```
PROBLEMS  OUTPUT  TERMINAL  GITLENS  DEBUG CONSOLE

zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 6$ /usr/local/bin
y"
Mac OS 10.6
Windows 10
Android 7
zmeyer@syn0095:~/Documen
y"
Mac OS 10.6
Windows 10
Android 7
```

```
Mac OS|10.6
Windows|10
Android|7
```

Screen Capture #10



```
#! /usr/bin/env python3

import pickle

OS = [["Mac OS", "10.6"],
      ["Windows", "10"],
      ["Android", "7"]]

# Open a binary file for write (overwrite)
with open("os.txt", "wb") as file:
    pickle.dump(OS, file)

# Open a binary file for read
with open("os.txt", "rb") as file:
    os = pickle.load(file)
    print(os)

```

```
PROBLEMS  OUTPUT  TERMINAL  GITLENS  DEBUG CONSOLE

zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 6$ /usr/local/bin/
y"
[['Mac OS', '10.6'], ['Windows', '10'], ['Android', '7']]
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 6$
```