

Screen Capture #1

```
48
49 print()
50 print("Processing with a while loop")
51 i = 0
52 while i < len(cars):
53     print("\t", cars[i])
54     i += 1
55
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
Mercedes
Lexus
zmeyer@syn0095:~/Documents/projects/CIMP8A$ /usr/local/bin/python3.9 "/Users/zmeyer/Documents/projects/CIMP8A/Week 5/assignment_06_01.py"
The second car in the list is a Ford
After update, the second car in the list is now a BMW
A new car was added to the end of the list: Lexus
After insert, the second car in the list is now a Honda
The 1st element was deleted so the second car in the list is now a BMW
The car in the second position was deleted...
The car in the second position is now a Mercedes

There is a Honda in the list

The list contains 3 items in the list
Processing with a for loop
Honda
Mercedes
Lexus

Processing with a while loop
Honda
Mercedes
Lexus
```

Screen Capture #2

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ python3.9 "/Users/zmeyer/Documents/projects/CIMP8A/Week 5/assignment_06_01.py"
The Move List program

COMMAND MENU
list - List all moves
add - Add a move
del - Delete a move
exit - Exit program

Command: list
1. Deadpool
2. Casino Royale
3. Goodfellas
```

Screen Capture #3

```
The Move List program

COMMAND MENU
list - List all moves
add - Add a move
del - Delete a move
exit - Exit program

Command: list
1. Deadpool
2. Casino Royale
3. Goodfellas

Command: add
Movie: Monsters, Inc.
Monsters, Inc. was added.

Command: list
1. Deadpool
2. Casino Royale
3. Goodfellas
4. Monsters, Inc.
```

Screen Capture #4

```
zmejer@synops: ~/Documents/projects/cine
The Move List program

COMMAND MENU
list - List all moves
add - Add a move
del - Delete a move
exit - Exit program

Command: list
1. Deadpool
2. Casino Royale
3. Goodfellas

Command: del
Number: 4
Invalid movie number.

Command: del
Number: 2
Casino Royale was deleted.

Command: list
1. Deadpool
2. Goodfellas

Command: exit
```

Screen Capture #5

```
1  #!/usr/bin/env python3
2
3  movies = [
4      ["Deadpool", "2016", "8.0"],
5      ["Casino Royale", "2006", "8.1"],
6      ["Star Wars: A New Hope", "1977", "8.6"],
7  ]
8
9  movie = ["Monsters, Inc.", "2001", "8.1"]
10
11  movies.append(movie)
12
13  # The first number is the row,
14  # the second number is the column
15  print("Item in movies position [0][0]: " + movies[0][0])
16  print("Item in movies position [3][2]: " + movies[3][2])
17
18  print()
19  # Display all elements in the movies list
20  # We will need to use a nest for loop to do this
21
22  # The first loop goes through the row
23  for movie in movies:
24      # The second loop goes through the columns
25      for item in movie:
26          print(item, end=" | ")
27      print()
28
```

Screen Capture #6

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ ./usr
Item in movies position [0][0]: Deadpool
Item in movies position [3][2]: 8.1

Deadpool | 2016 | 8.0 |
Casino Royale | 2006 | 8.1 |
Star Wars: A New Hope | 1977 | 8.6 |
Monsters, Inc. | 2001 | 8.1 |
```

Screen Capture #7

```
The Move List program

COMMAND MENU
list - List all moves
add - Add a move
del - Delete a move
exit - Exit program

Command: list
1. Deadpool (2016)
2. Casino Royale (2006)
3. Goodfellas (1990)

Command: add
Name: Monsters, Inc.
Year: 2001
Monsters, Inc. was added.

Command: list
1. Deadpool (2016)
2. Casino Royale (2006)
3. Goodfellas (1990)
4. Monsters, Inc. (2001)
```

Screen Capture #8

```
Command: list
1. Deadpool (2016)
2. Casino Royale (2006)
3. Goodfellas (1990)
4. Monsters, Inc. (2001)

Command: del
Number: 3
Goodfellas was deleted.

Command: list
1. Deadpool (2016)
2. Casino Royale (2006)
3. Monsters, Inc. (2001)

Command: █
```

Screen Capture #9

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ python3
Unsorted list:
Porsche
Ford
Mercedes

Sorted List - Ascending
Ford
Mercedes
Porsche

Sorted List - Descending
Porsche
Mercedes
Ford

The Porsche occurs 2 times
```

Screen Capture #10

```
1  #! /usr/bin/env python3
2
3
4  scores = [87, 92, 63, 98, 77, 84, 89, 74, 93]
5  print("The max score is: " + str(max(scores)))
6  print("The min score is: " + str(min(scores)))
7
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ /usr/local/bin/python3
The max score is: 98
The min score is: 63
zmeyer@syn0095:~/Documents/projects/CIMP8A$
```

Screen Capture #11

```
1  #! /usr/bin/env python3
2
3  # Creating a tuple
4  stop_light = ("Red", "Yellow", "Green")
5
6  # Accessing with the index
7  print(stop_light[1])
8
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ /us
Yellow
zmeyer@syn0095:~/Documents/projects/CIMP8A$
```

Extra Credit #1

```
zmeyer@syn0095:~/Documents/projects/CIMP8A$ /usr/local/b
Prime Number Checker

Please enter an integer between 1 and 5000: 5
5 is a prime number.

Try again? (y/n): y

Please enter an integer between 1 and 5000: 6
6 is not a prime number.
It has 4 factors: 1 2 3 6

Try again? (y/n): y

Please enter an integer between 1 and 5000: 200
200 is not a prime number.
It has 12 factors: 1 2 4 5 8 10 20 25 40 50 100 200

Try again? (y/n): n
Bye!
```