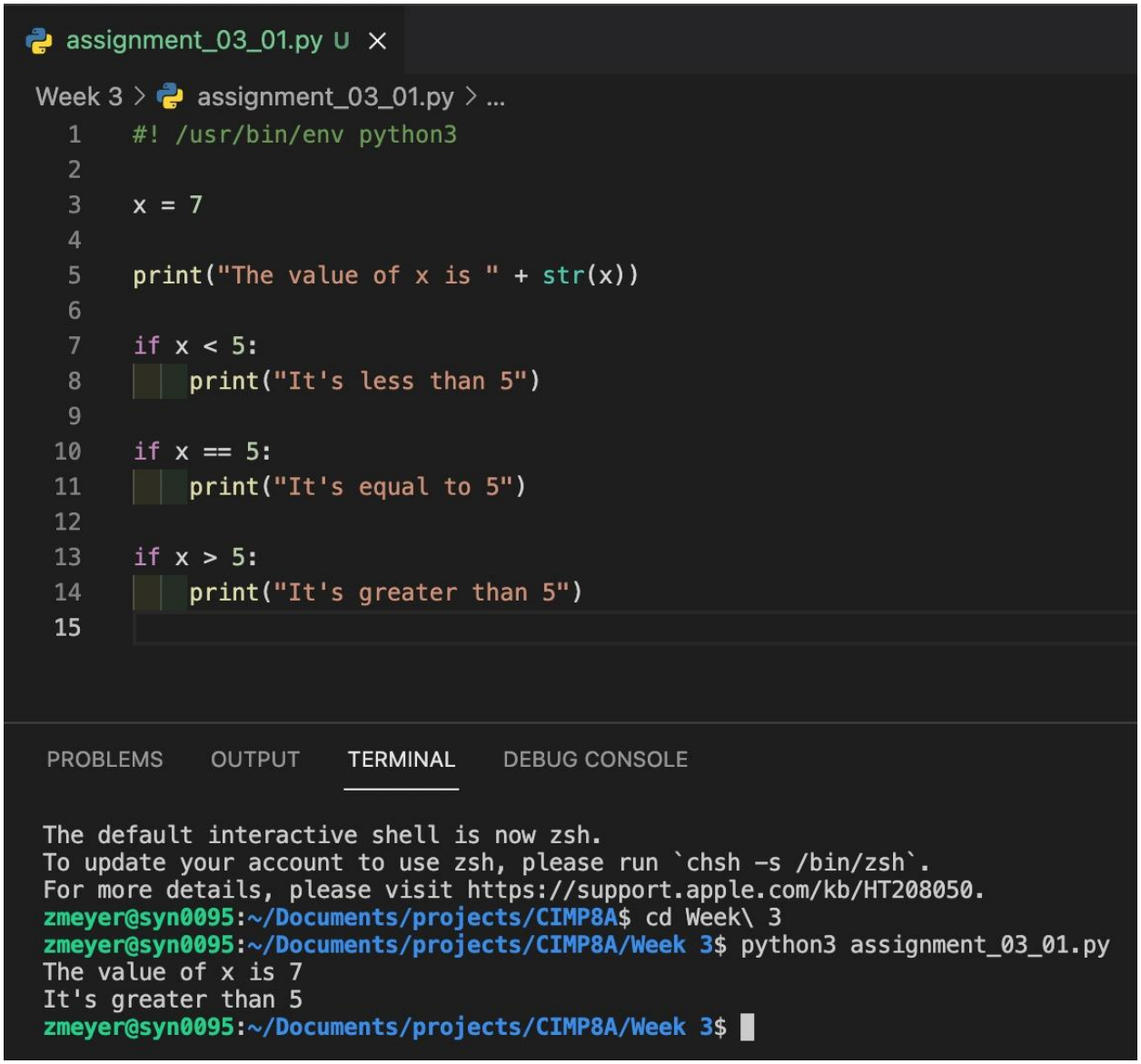
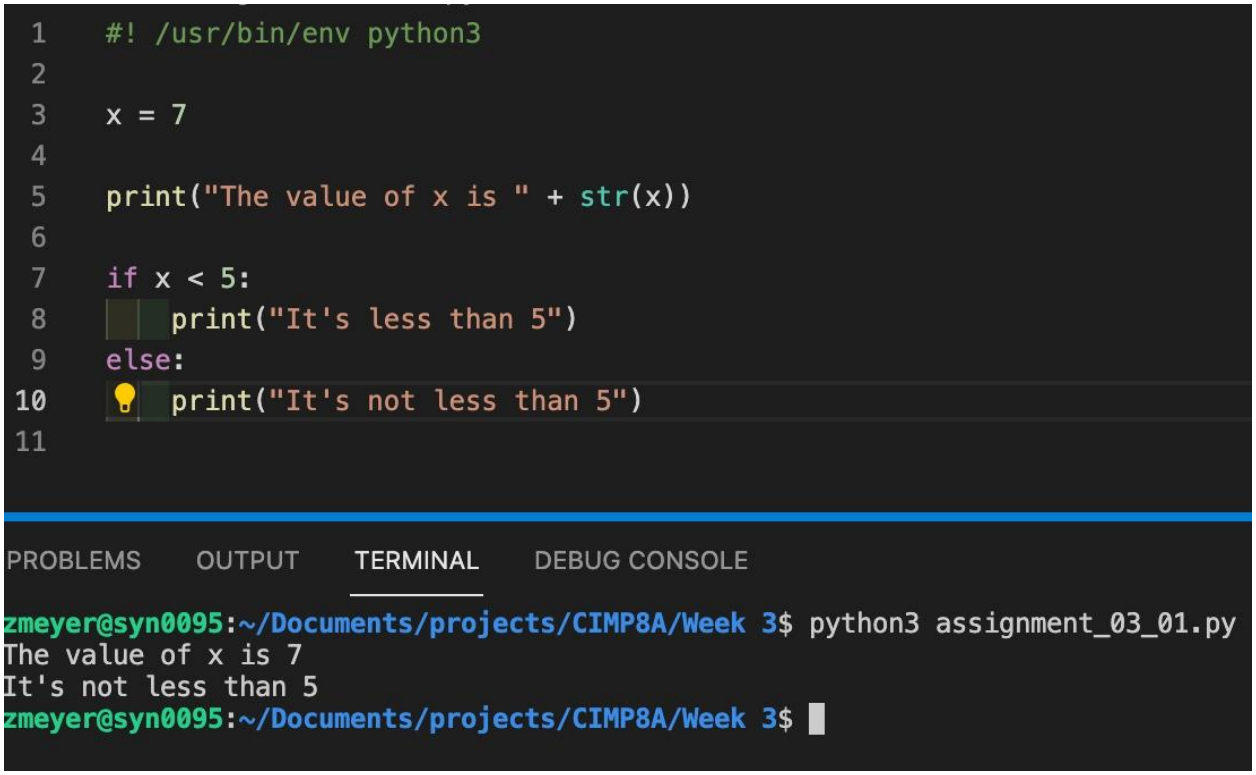
Screen Capture #1



Screen Capture #2

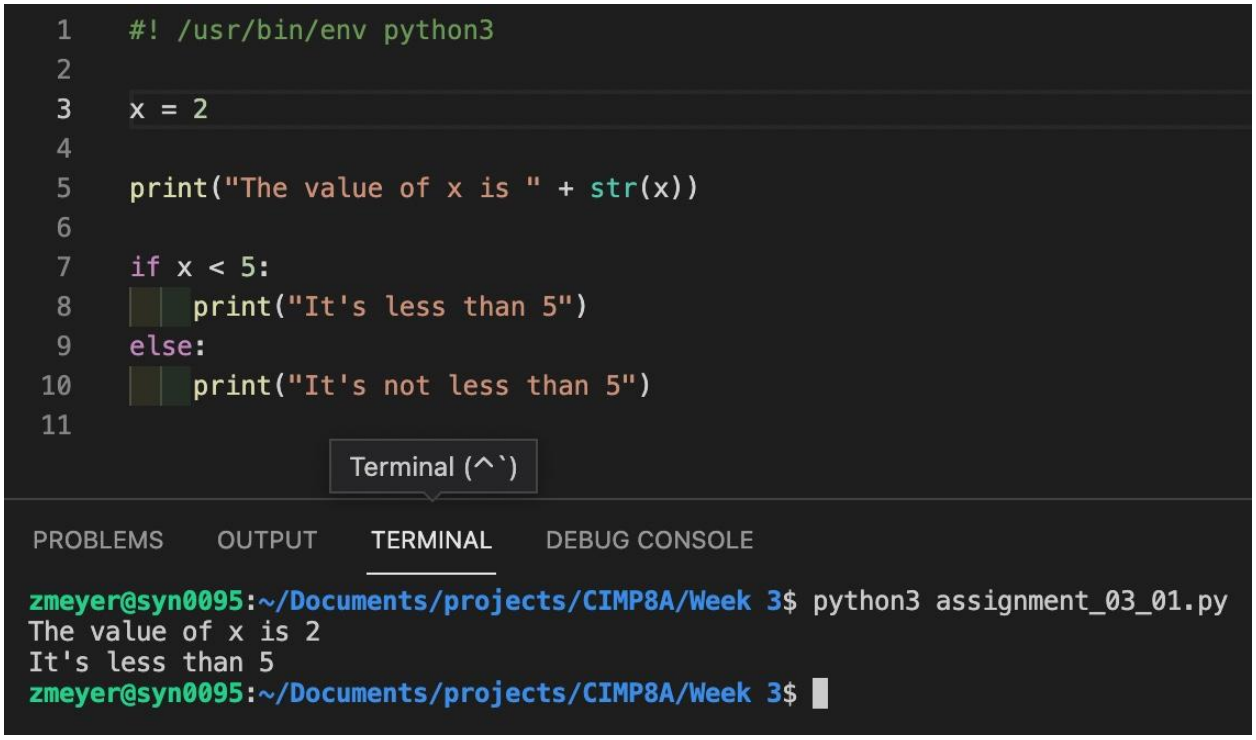


```
1   #! /usr/bin/env python3
2
3   x = 7
4
5   print("The value of x is " + str(x))
6
7   if x < 5:
8       print("It's less than 5")
9   else:
10      print("It's not less than 5")
11
```

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_01.py
The value of x is 7
It's not less than 5
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #3



```
1   #! /usr/bin/env python3
2
3   x = 2
4
5   print("The value of x is " + str(x))
6
7   if x < 5:
8       print("It's less than 5")
9   else:
10      print("It's not less than 5")
11
```

Terminal (^`)

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_01.py
The value of x is 2
It's less than 5
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #4

```
1   #! /usr/bin/env python3
2
3   x = 5
4
5   print("The value of x is " + str(x))
6
7   if x < 5:
8       print("It's less than 5")
9   elif x == 5:
10      print("It's equal to 5")
11  else:
12      print("It's not less than 5")
13
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_01.py
The value of x is 5
It's equal to 5
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #5

```
1   #! /usr/bin/env python3
2
3   x = 7
4
5   print("The value of x is " + str(x))
6
7   if x != 5:
8       print("It's NOT equal to 5")
9   else:
10      print("It's equal to 5")
11
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_01.py
The value of x is 7
It's NOT equal to 5
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #6

```
1   #! /usr/bin/env python3
2
3   units = 14
4   gpa = 3.75
5
6   if units >= 12 and gpa >= 3.25:
7       print("Eligible for Dean's List")
8   else:
9       print("Not eligible for Dean's List")
10
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_02.py
Eligible for Dean's List
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

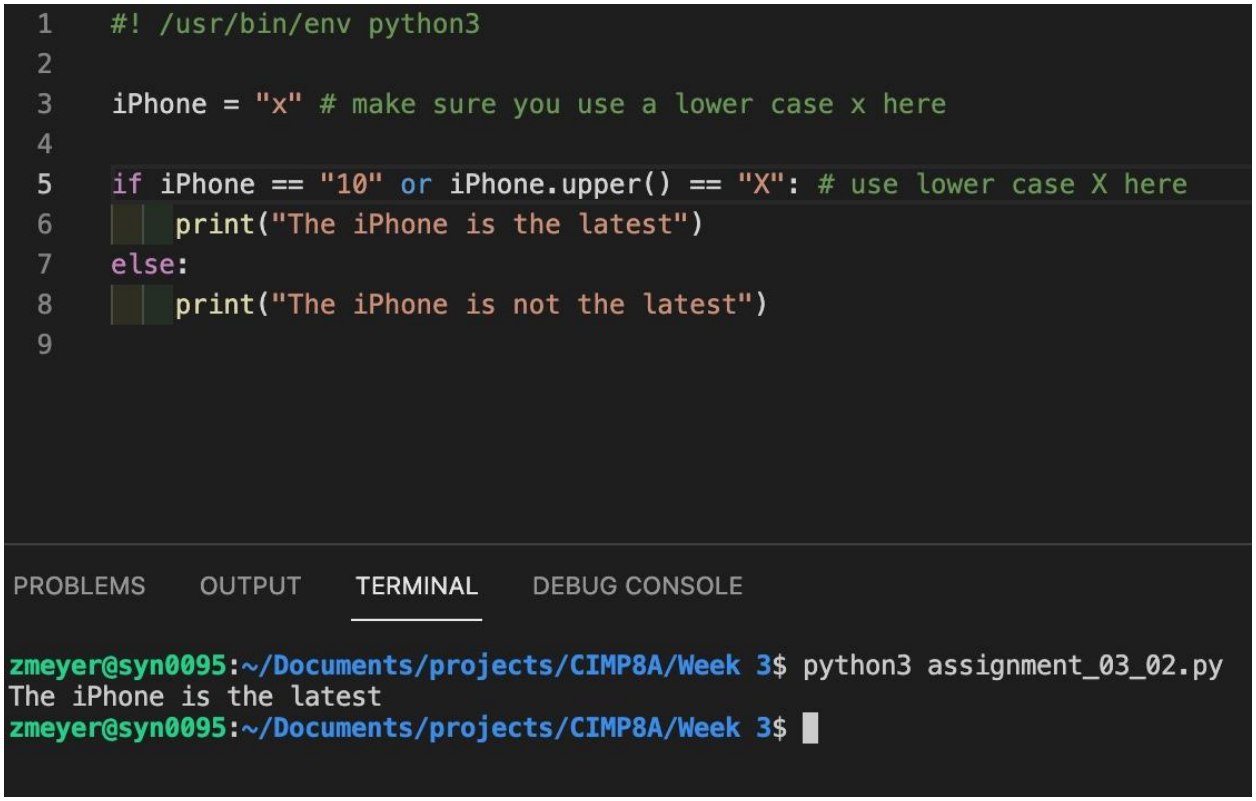
Screen Capture #7

```
1   #! /usr/bin/env python3
2
3   iPhone = "x" # make sure you use a lower case x here
4
5   if iPhone == "10" or iPhone == "x": # use lower case X here
6       print("The iPhone is the latest")
7   else:
8       print("The iPhone is not the latest")
9
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_02.py
The iPhone is the latest
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #8



```
1   #! /usr/bin/env python3
2
3   iPhone = "x" # make sure you use a lower case x here
4
5   if iPhone == "10" or iPhone.upper() == "X": # use lower case X here
6       print("The iPhone is the latest")
7   else:
8       print("The iPhone is not the latest")
9
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_02.py
The iPhone is the latest
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #9

```
1   #! /usr/bin/env python3
2
3   sport = "hockey"
4   city = "Anaheim"
5   team = ""
6
7   if sport == "baseball":
8       if city.lower() == "anaheim":
9           team = "Angels"
10      if city.lower() == "los angeles":
11          team = "Dodgers"
12  elif sport == "hockey":
13      if city.lower() == "anaheim":
14          team = "Ducks"
15      if city.lower() == "los angeles":
16          team = "Kings"
17
18  print("The " + sport + " team in " + city + " is the " + team)
19
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_03.py
The hockey team in Anaheim is the Ducks
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #10

```
1   #! /usr/bin/env python3
2
3   choice = "y"
4   while choice.lower() == "y":
5       print("Hello!")
6       choice = input("Say Hello again? (y/n): ")
7
8   print("Good bye!")
9
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_04.py
Hello!
Say Hello again? (y/n): y
Hello!
Say Hello again? (y/n): y
Hello!
Say Hello again? (y/n): n
Good bye!
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #11

```
1   #! /usr/bin/env python3
2
3   counter = 0
4   print("while Loop is < 5")
5   while counter < 5:
6       print(counter, end=" ")
7       counter += 1
8   print("\nThe loop has ended")
9
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_05.py
while Loop is < 5
0 1 2 3 4
The loop has ended
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #12

```
1   #! /usr/bin/env python3
2
3   print("for Loop in range 5")
4   for i in range(5):
5       print(i, end=" ")
6   print("\nThe loop has ended")
7
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_05.py
for Loop in range 5
0 1 2 3 4
The loop has ended
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #13

```
1   #! /usr/bin/env python3
2
3   print("for Loop in range 5 to 10")
4   for i in range(5, 10):
5       print(i, end=" ")
6   print("\nThe loop has ended")
7
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_05.py
for Loop in range 5 to 10
5 6 7 8 9
The loop has ended
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #14

```
1   #! /usr/bin/env python3
2
3   print("for Loop in range 0 to 10, skip 2")
4   for i in range(0, 10, 2):
5       print(i, end=" ")
6   print("\nThe loop has ended")
7
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_05.py
for Loop in range 0 to 10, skip 2
0 2 4 6 8
The loop has ended
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #15

```
1   #! /usr/bin/env python3
2
3   print("Enter 'exit' when you\'re done.\n")
4   while True:
5       data = input("Enter an integer to sqaure: ")
6       if data == "exit":
7           break
8       i = int(data)
9       print(i, "squared is", i * i, "\n")
10  print("The program has ended")
11
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_06.py
Enter 'exit' when you're done.

Enter an integer to sqaure: 5
5 squared is 25

Enter an integer to sqaure: 2
2 squared is 4

Enter an integer to sqaure: exit
The program has ended
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #16

```
1   #! /usr/bin/env python3
2
3   more = "y"
4   while more.lower() == "y":
5       miles_driven = float(input("Enter miles driven:\t\t"))
6       gallons_used = float(input("Enter gallons of gas used:\t"))
7
8       # validate input
9       if miles_driven <= 0 or gallons_used <= 0:
10          print("Both entries must be greater than zero. Try again.\n ")
11          continue # send flow back to the top
12
13      mpg = round(miles_driven / gallons_used, 2)
14      print("Miles Per Gallon:", mpg, "\n")
15
16      more = input("Continue? (y/n): ")
17      print()
18
19  print("The program has ended")
20
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 assignment_03_07.py
Enter miles driven:             0
Enter gallons of gas used:      75
Both entries must be greater than zero. Try again.

Enter miles driven:             75
Enter gallons of gas used:      3
Miles Per Gallon: 25.0

Continue? (y/n): n

The program has ended
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #17

```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 future_value.py
Welcome to the Future Value Calculator

Enter monthly investment:       500
Enter yearly interest rate:     10
Enter number of years:          15
Future value:                   208962.13

Continue? (y/n): y

Enter monthly investment:       100
Enter yearly interest rate:     12
Enter number of years:          10
Future value:                   23233.91

Continue? (y/n): n

The program has ended
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #18 (EC)

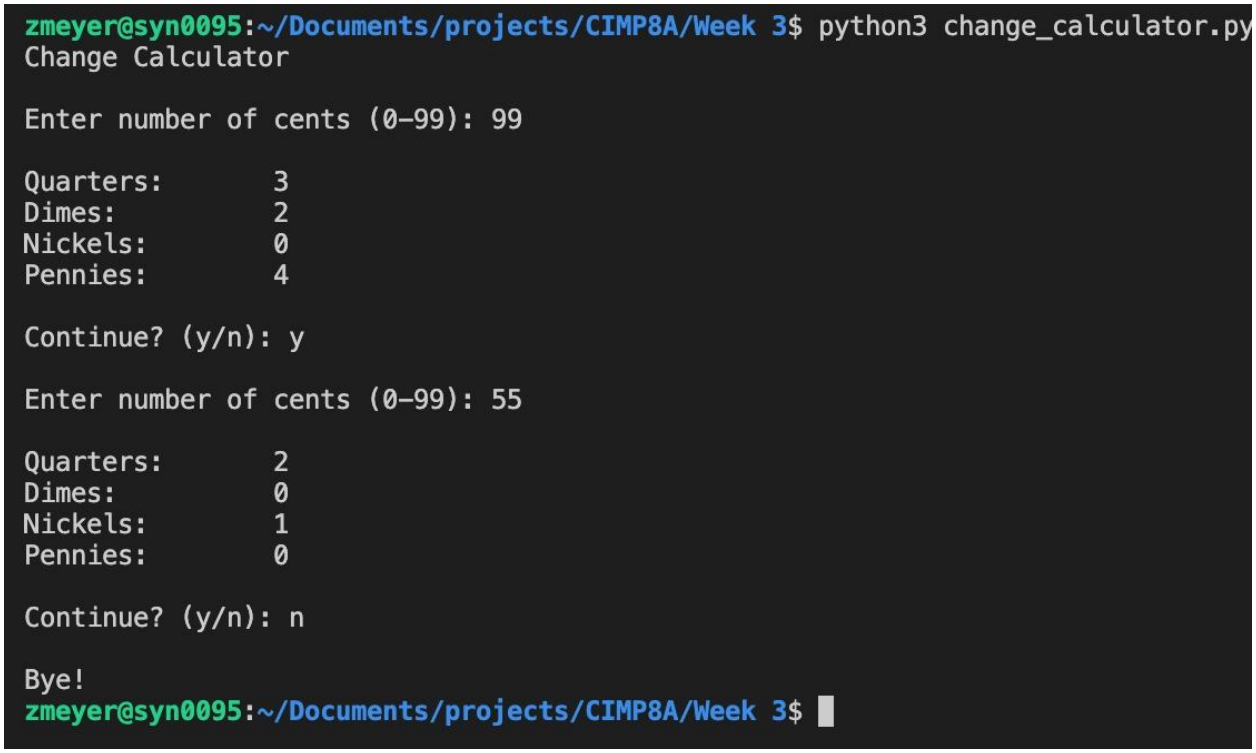
```
zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$ python3 tip_calculator.py
Tip Calculator

Cost of meal:   52.31

15%
Tip amount:     7.85
Total amount:   60.16

20%
Tip amount:     10.46
Total amount:   62.77

25%
Tip amount:     13.08
Total amount:   65.39

zmeyer@syn0095:~/Documents/projects/CIMP8A/Week 3$
```

Screen Capture #19 (EC)