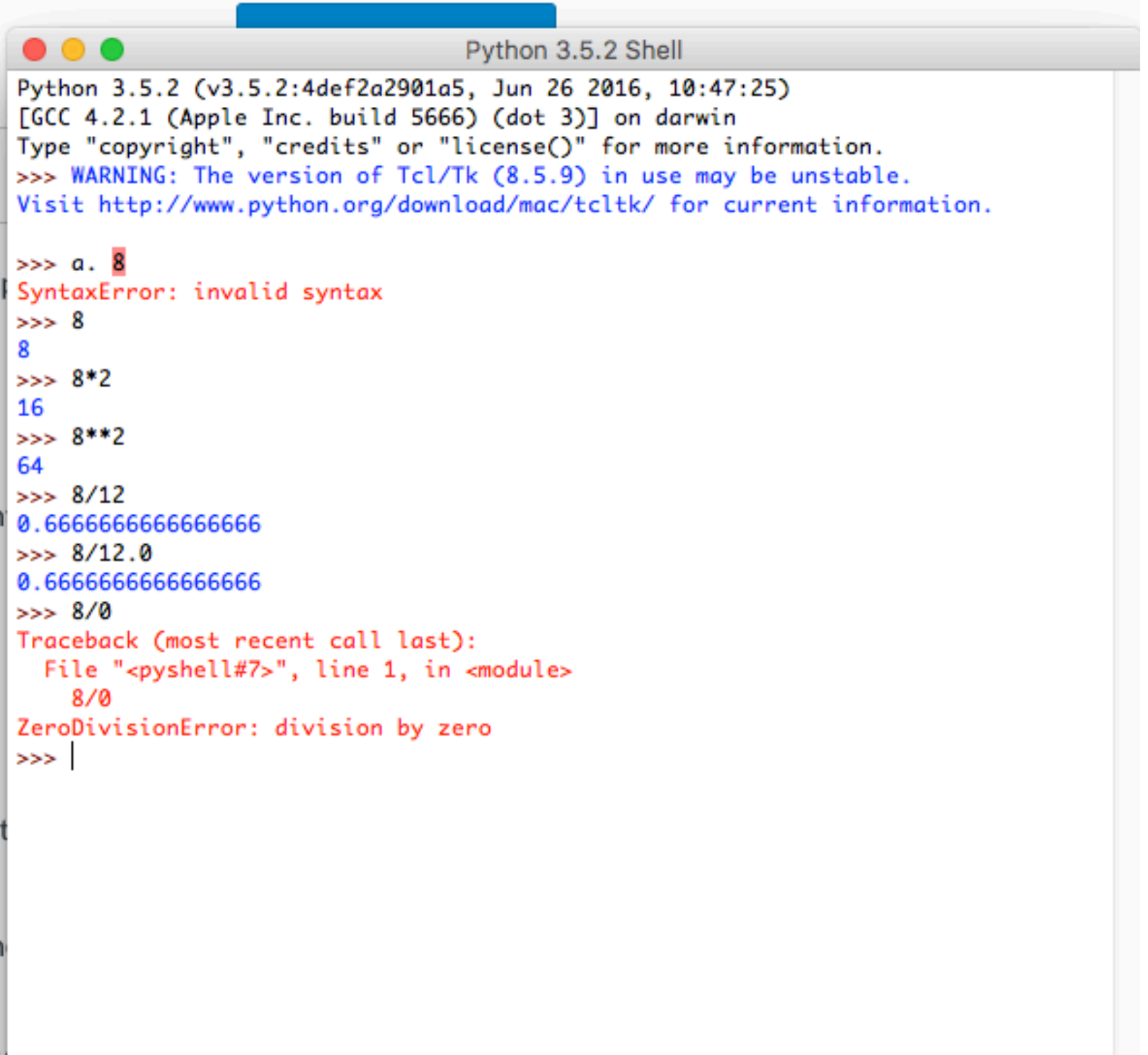
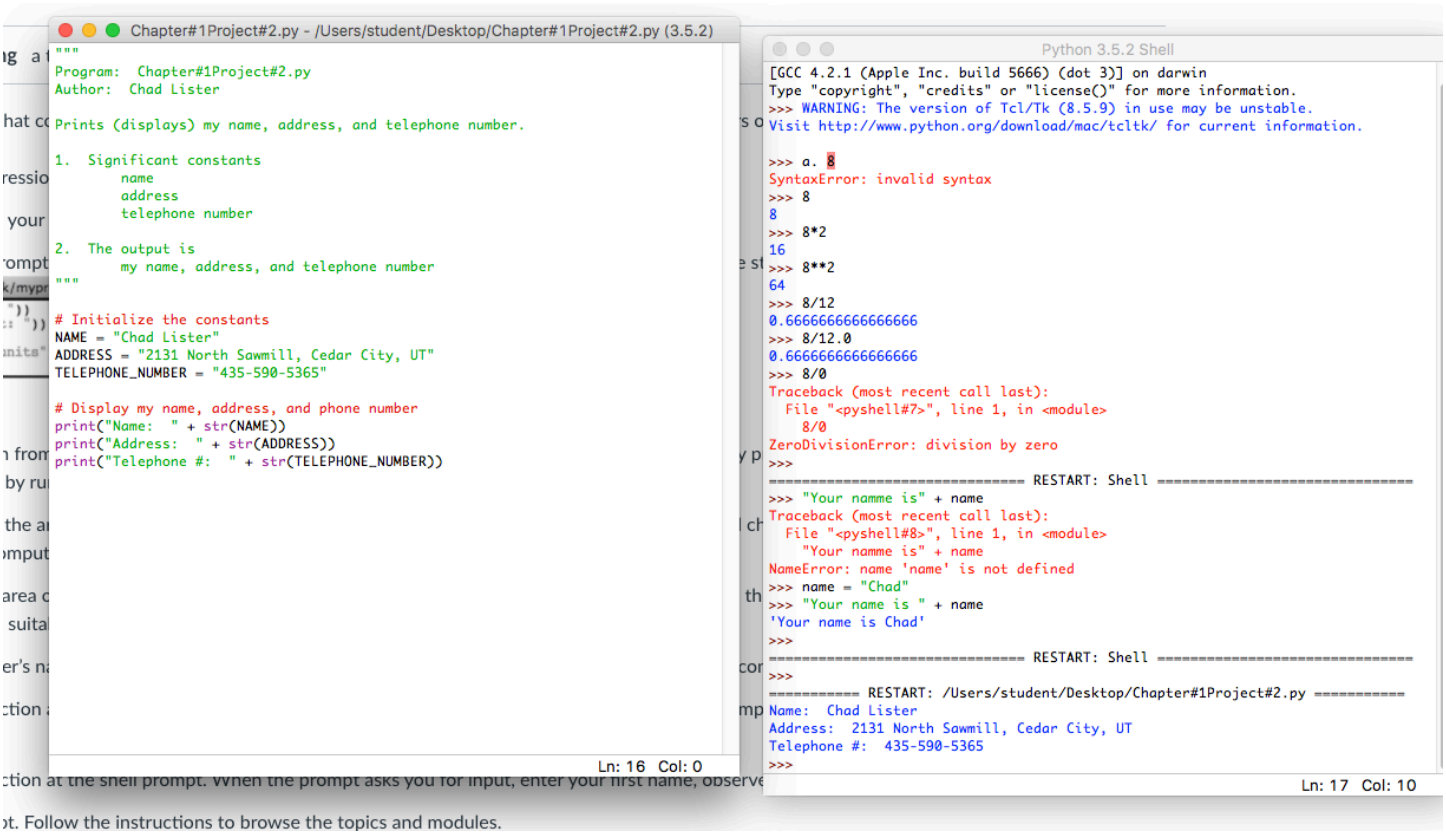
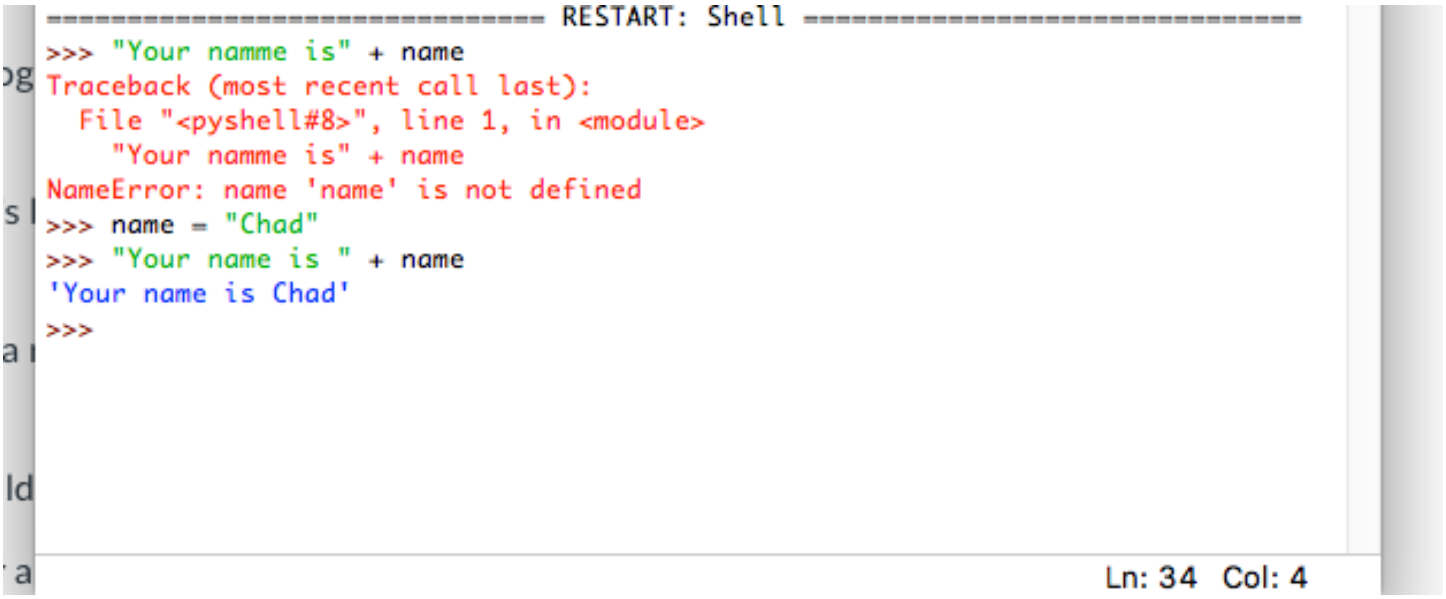

Python 3.5.2 Shell
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 26 2016, 10:47:25)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more information.
>>> WARNING: The version of Tcl/Tk (8.5.9) in use may be unstable.
Visit http://www.python.org/download/mac/tcltk/ for current information.
>>> a. 8
SyntaxError: invalid syntax
>>> 8
8
>>> 8*2
16
>>> 8**2
64
>>> 8/12
0.6666666666666666
>>> 8/12.0
0.6666666666666666
>>> 8/0
Traceback (most recent call last):
File "<pyshell#7>", line 1, in <module>
8/0
ZeroDivisionError: division by zero
>>>
s or descri
statemen
pressing t
change th



ction at the shell prompt. When the prompt asks you for input, enter your first name, observe

ot. Follow the instructions to browse the topics and modules.


========== RESTART: Shell ==========
>>> "Your namme is" + name
Traceback (most recent call last):
File "<pyshell#8>", line 1, in <module>
"Your namme is" + name
NameError: name 'name' is not defined
>>> name = "Chad"
>>> "Your name is " + name
'Your name is Chad'
>>>
Ln: 34 Col: 4

Home

Modules

Grades

Cisco V

First Programs (FP) Chapter 1: Projects 1-10

box or a file upload

ordered list with scree

serve the results: a. 8,

ress, and telephone nu

ur name is", name. Ther

Col: 26

7 that computes the ar

ast three times.

angle. Issue the approp

. Test the program fron

This program should re

l.

xt) and age (as a numbe

l prompt. When the pr

l prompt. When the pr

myprogram.py - /Users/student/Documents/myprogram.py (3.5.2)

```
"""
Program:  myprogram.py
Author:  Chad Lister

Computes the area of a square or rectangle.

1.  Significant constants:
        None.

2.  The inputs are:
        width
        height
3.  Computations:
        area = width * height
4.  The output is:
        The area of the square or rectangle
"""

# Request the inputs
width = int(input("Enter the width:  "))
height = int(input("Enter the height:  "))

#  Compute the area
area = width * height

#  Display the area
print("The area is ", area, " square units.")
```

Ln: 3 Col: 22

```
>>> 8/12.0
0.6666666666666666
>>> 8/0
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    8/0
ZeroDivisionError: division by zero
>>>
========== RESTART: Shell ==========
>>> "Your namme is" + name
Traceback (most recent call last):
  File "<pyshell#8>", line 1, in <module>
    "Your namme is" + name
NameError: name 'name' is not defined
>>> name = "Chad"
>>> "Your name is " + name
'Your name is Chad'
>>>
========== RESTART: Shell ==========
>>>
========== RESTART: /Users/student/Desktop/Chapter#1Project#2.py ==========
Name:  Chad Lister
Address:  2131 North Sawmill, Cedar City, UT
Telephone #:  435-590-5365
>>>
>>>
========== RESTART: Shell ==========
>>> width = int(input("Enter teh width:  "))
Enter teh width:
========== RESTART: Shell ==========
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width:  10
Enter the height:  3
The area is  30  square units.
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width:  5
Enter the height:  5
The area is  25  square units.
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width:  4
Enter the height:  15
The area is  60  square units.
>>>
```

myprogramproject 5.py - /Users/student/Desktop/myprogramproject 5.py (3.5.2)

```
"""

Program:  myprogramproject 5.py
Author:  Chad Lister

Computes the area of a triangle.

1.  Significant constants:
        None.

2.  The inputs are:
       base
       height

3.  Computations:
        area = .5 * base * height

4.  The output is:
        The area of the triangle
"""

# Request the inputs
base = int(input("Enter the base:  "))
height = int(input("Enter the height:  "))

#  Compute the area
area = .5 * base * height

#  Display the area
print("The area is ", area, " .")
```

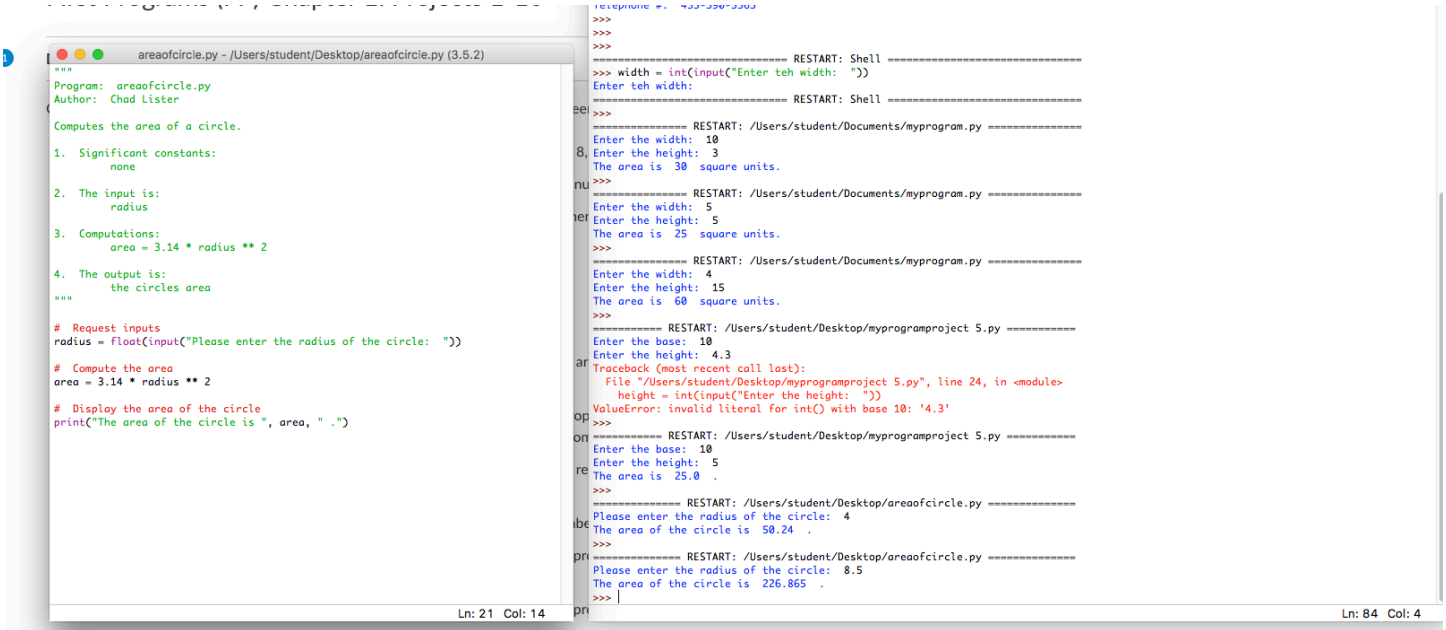
Ln: 16 Col: 34

```
  File "<pyshell#8>", line 1, in <module>
    "Your namme is" + name
NameError: name 'name' is not defined
>>> name = "Chad"
>>> "Your name is " + name
'Your name is Chad'
>>>
========== RESTART: Shell ==========
>>>
========== RESTART: /Users/student/Desktop/Chapter#1Project#2.py ==========
Name:  Chad Lister
Address:  2131 North Sawmill, Cedar City, UT
Telephone #:  435-590-5365
>>>
>>>
>>>
========== RESTART: Shell ==========
>>> width = int(input("Enter teh width:  "))
Enter teh width:
========== RESTART: Shell ==========
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width:  10
Enter the height:  3
The area is  30  square units.
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width:  5
Enter the height:  5
The area is  25  square units.
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width:  4
Enter the height:  15
The area is  60  square units.
>>>
========== RESTART: /Users/student/Desktop/myprogramproject 5.py ==========
Enter the base:  10
Enter the height:  4.3
Traceback (most recent call last):
  File "/Users/student/Desktop/myprogramproject 5.py", line 24, in <module>
    height = int(input("Enter the height:  "))
ValueError: invalid literal for int() with base 10: '4.3'
>>>
========== RESTART: /Users/student/Desktop/myprogramproject 5.py ==========
Enter the base:  10
Enter the height:  5
The area is  25.0  .
>>>
```

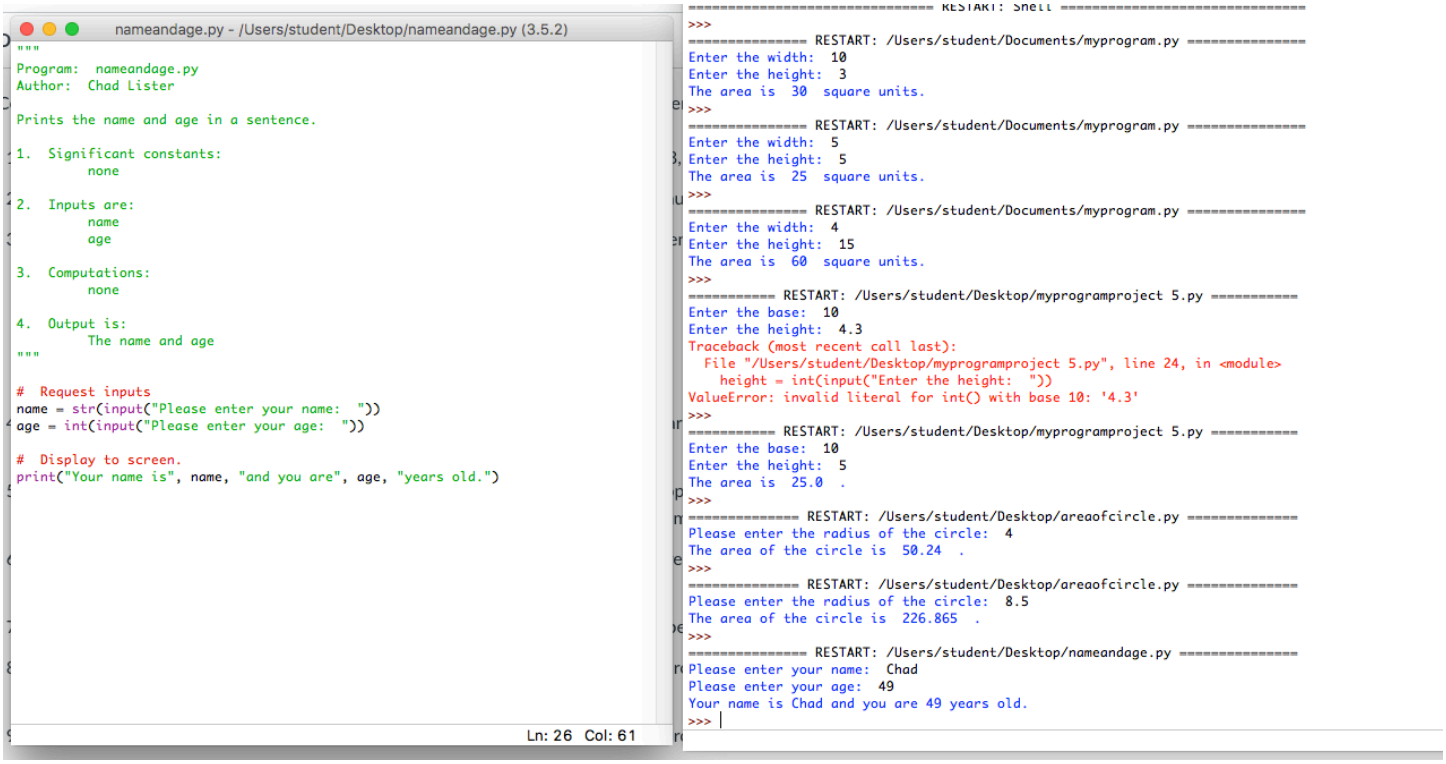
Ln: 76

8. Enter an input statement using the input function at the shell prompt. When the pr
   and explain what happened.

9. Enter an input statement using the input function at the shell prompt. When the pr



10. Enter the expression help() at the shell prompt. Follow the instructions to browse the topics and modules.

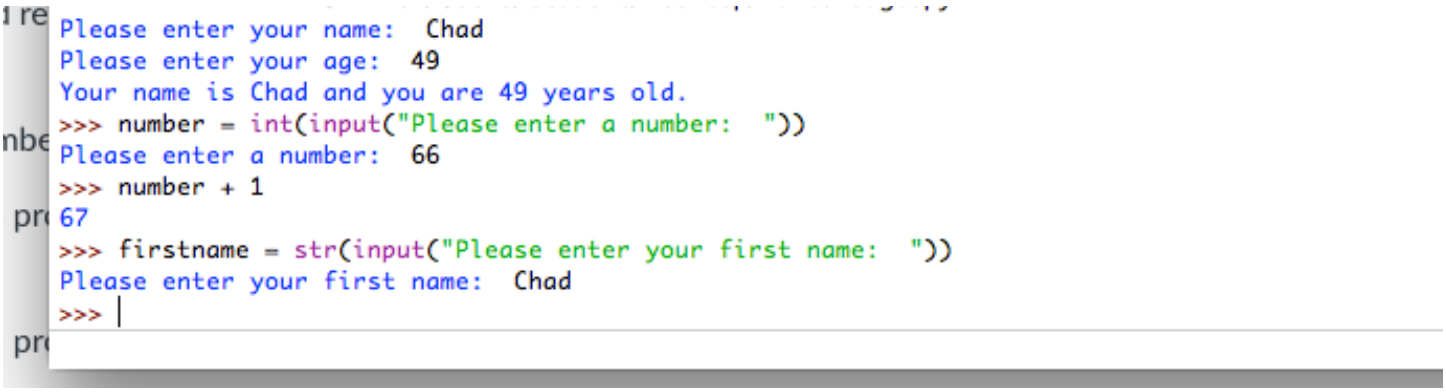

nameandage.py - /Users/student/Desktop/nameandage.py (3.5.2)
"""
Program: nameandage.py
Author: Chad Lister
Prints the name and age in a sentence.
1. Significant constants:
none
2. Inputs are:
name
age
3. Computations:
none
4. Output is:
The name and age
"""
# Request inputs
name = str(input("Please enter your name: "))
age = int(input("Please enter your age: "))
# Display to screen.
print("Your name is", name, "and you are", age, "years old.")
Ln: 26 Col: 61
========== RESTART: Shell ==========
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width: 10
Enter the height: 3
The area is 30 square units.
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width: 5
Enter the height: 5
The area is 25 square units.
>>>
========== RESTART: /Users/student/Documents/myprogram.py ==========
Enter the width: 4
Enter the height: 15
The area is 60 square units.
>>>
========== RESTART: /Users/student/Desktop/myprogramproject 5.py ==========
Enter the base: 10
Enter the height: 4.3
Traceback (most recent call last):
File "/Users/student/Desktop/myprogramproject 5.py", line 24, in <module>
height = int(input("Enter the height: "))
ValueError: invalid literal for int() with base 10: '4.3'
>>>
========== RESTART: /Users/student/Desktop/myprogramproject 5.py ==========
Enter the base: 10
Enter the height: 5
The area is 25.0 .
>>>
========== RESTART: /Users/student/Desktop/areaofcircle.py ==========
Please enter the radius of the circle: 4
The area of the circle is 50.24 .
>>>
========== RESTART: /Users/student/Desktop/areaofcircle.py ==========
Please enter the radius of the circle: 8.5
The area of the circle is 226.865 .
>>>
========== RESTART: /Users/student/Desktop/nameandage.py ==========
Please enter your name: Chad
Please enter your age: 49
Your name is Chad and you are 49 years old.
>>>

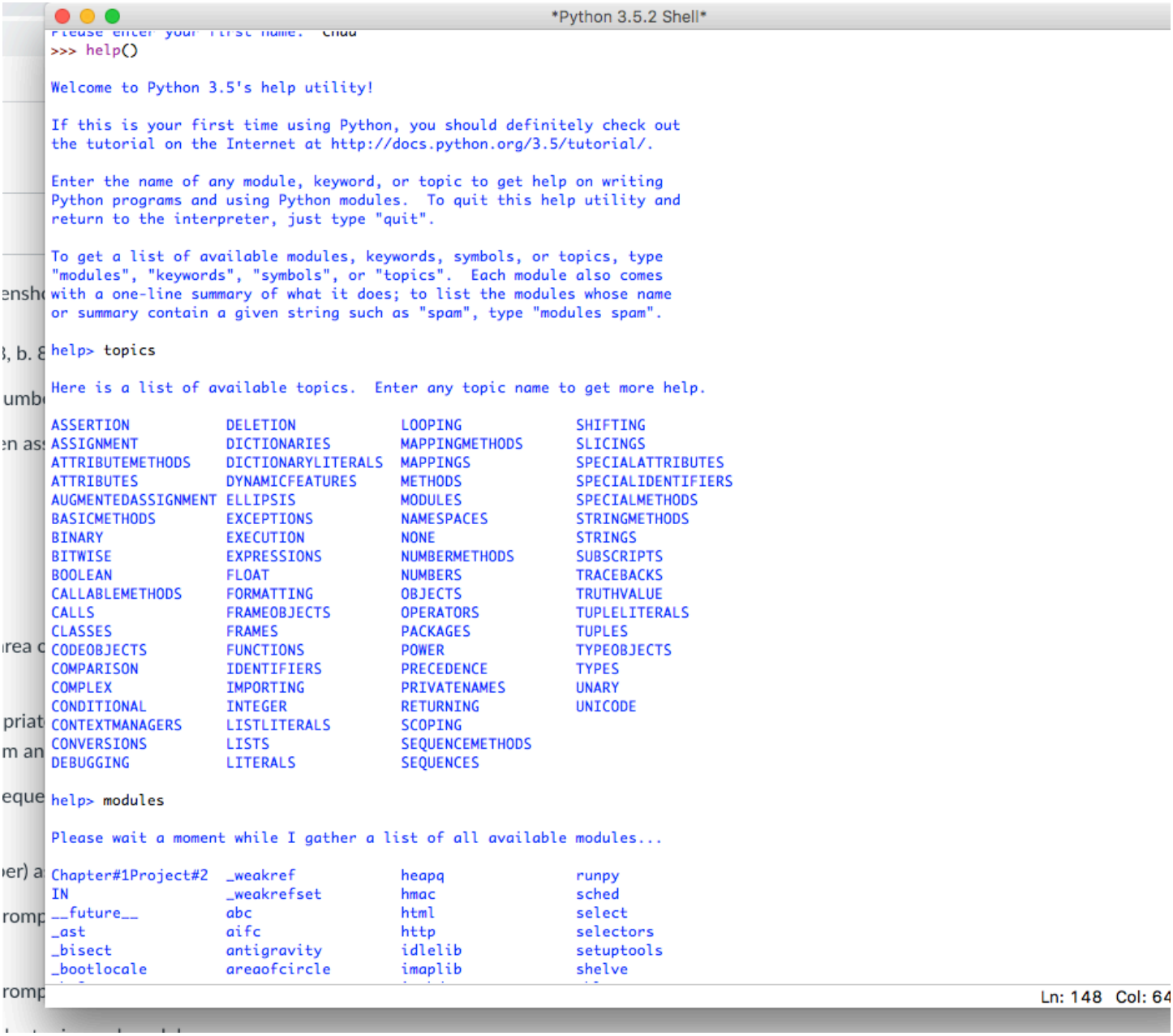
the pr

```
Your name is Chad and you are 49 years old.
>>> number = int(input("Please enter a number:  "))
Please enter a number:  66
>>> number + 1
67
>>>
```

Ln: 93 Col: 4

the pr


Please enter your name: Chad
Please enter your age: 49
Your name is Chad and you are 49 years old.
>>> number = int(input("Please enter a number: "))
Please enter a number: 66
>>> number + 1
67
>>> firstname = str(input("Please enter your first name: "))
Please enter your first name: Chad
>>>


Python 3.5.2 Shell
Please enter your first name: Chad
>>> help()
Welcome to Python 3.5's help utility!
If this is your first time using Python, you should definitely check out
the tutorial on the Internet at http://docs.python.org/3.5/tutorial/.
Enter the name of any module, keyword, or topic to get help on writing
Python programs and using Python modules. To quit this help utility and
return to the interpreter, just type "quit".
To get a list of available modules, keywords, symbols, or topics, type
"modules", "keywords", "symbols", or "topics". Each module also comes
with a one-line summary of what it does; to list the modules whose name
or summary contain a given string such as "spam", type "modules spam".
help> topics
Here is a list of available topics. Enter any topic name to get more help.
ASSERTION DELETION LOOPING SHIFTING
ASSIGNMENT DICTIONARIES MAPPINGMETHODS SLICINGS
ATTRIBUTEMETHODS DICTIONARYLITERALS MAPPINGS SPECIALATTRIBUTES
ATTRIBUTES DYNAMICFEATURES METHODS SPECIALIDENTIFIERS
AUGMENTEDASSIGNMENT ELLIPSIS MODULES SPECIALMETHODS
BASICMETHODS EXCEPTIONS NAMESPACES STRINGMETHODS
BINARY EXECUTION NONE STRINGS
BITWISE EXPRESSIONS NUMBERMETHODS SUBSCRIPTS
BOOLEAN FLOAT NUMBERS TRACEBACKS
CALLABLEMETHODS FORMATTING OBJECTS TRUTHVALUE
CALLS FRAMEOBJECTS OPERATORS TUPLELITERALS
CLASSES FRAMES PACKAGES TUPLES
CODEOBJECTS FUNCTIONS POWER TYPEOBJECTS
COMPARISON IDENTIFIERS PRECEDENCE TYPES
COMPLEX IMPORTING PRIVATENAMES UNARY
CONDITIONAL INTEGER RETURNING UNICODE
CONTEXTMANAGERS LISTLITERALS SCOPING
CONVERSIONS LISTS SEQUENCEMETHODS
DEBUGGING LITERALS SEQUENCES
help> modules
Please wait a moment while I gather a list of all available modules...
Chapter#1Project#2 _weakref heapq runpy
IN _weakrefset hmac sched
__future__ abc html select
_ast aifc http selectors
_bisect antigravity idlelib setuptools
_bootlocale areaofcircle imaplib shelve
Ln: 148 Col: 64