

1. Project #1:

```
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.
8
8
>>> 8*2
16
>>> 8/12
0.6666666666666666
>>> 8/0
Traceback (most recent call last):
  File "<pyshell#3>", line 1, in <module>
    8/0
ZeroDivisionError: division by zero
>>>
```

2. Project #2:

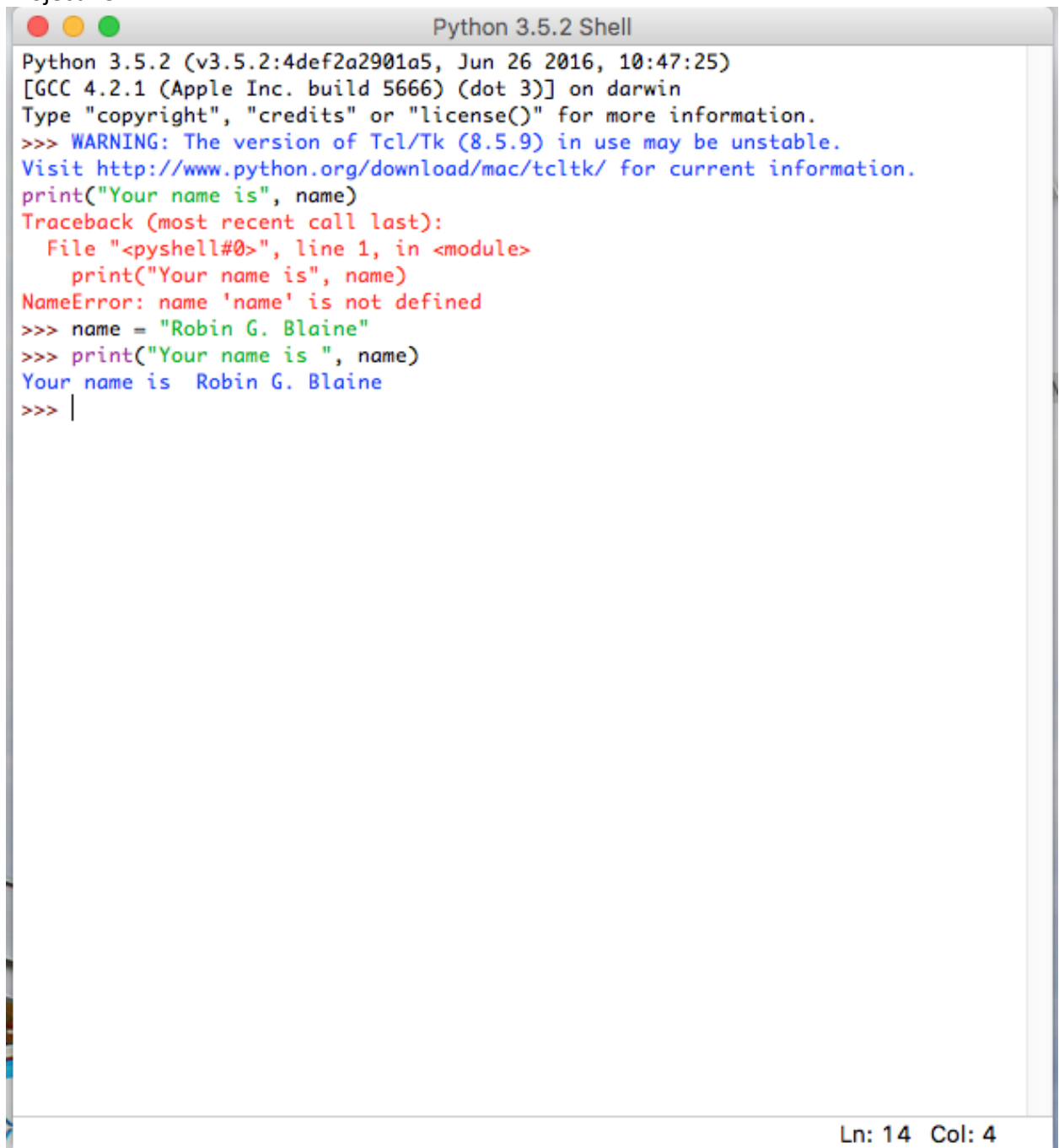


```
Python 3.5.2 Shell
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 26 2016, 10:47:25)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more information.
>>> WARNING: The version of Tcl/Tk (8.5.9) in use may be unstable.
Visit http://www.python.org/download/mac/tcltk/ for current information.

===== RESTART: /Users/student/Documents/Projects_1-10_Q2.py =====
Robin G. Blaine
4223 N. Quarterhorse Ln, Enoch UT 84721
(662) 736-3974
>>> |
```

Ln: 11 Col: 4

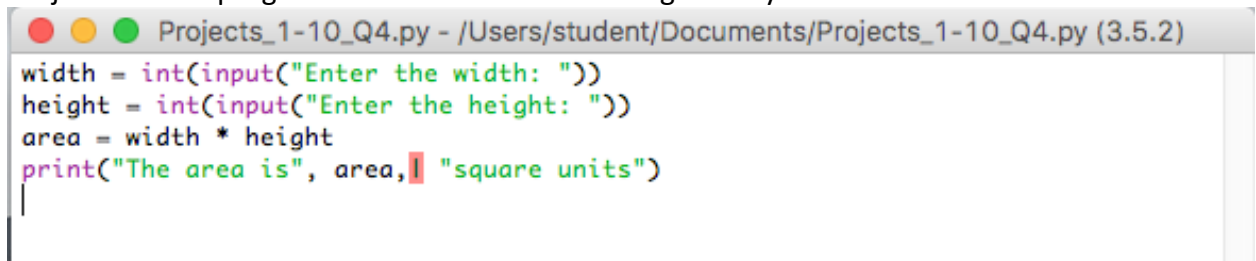
3. Project #3:



```
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.
print("Your name is", name)
Traceback (most recent call last):
  File "<pyshell#0>", line 1, in <module>
    print("Your name is", name)
NameError: name 'name' is not defined
>>> name = "Robin G. Blaine"
>>> print("Your name is ", name)
Your name is  Robin G. Blaine
>>> |
```

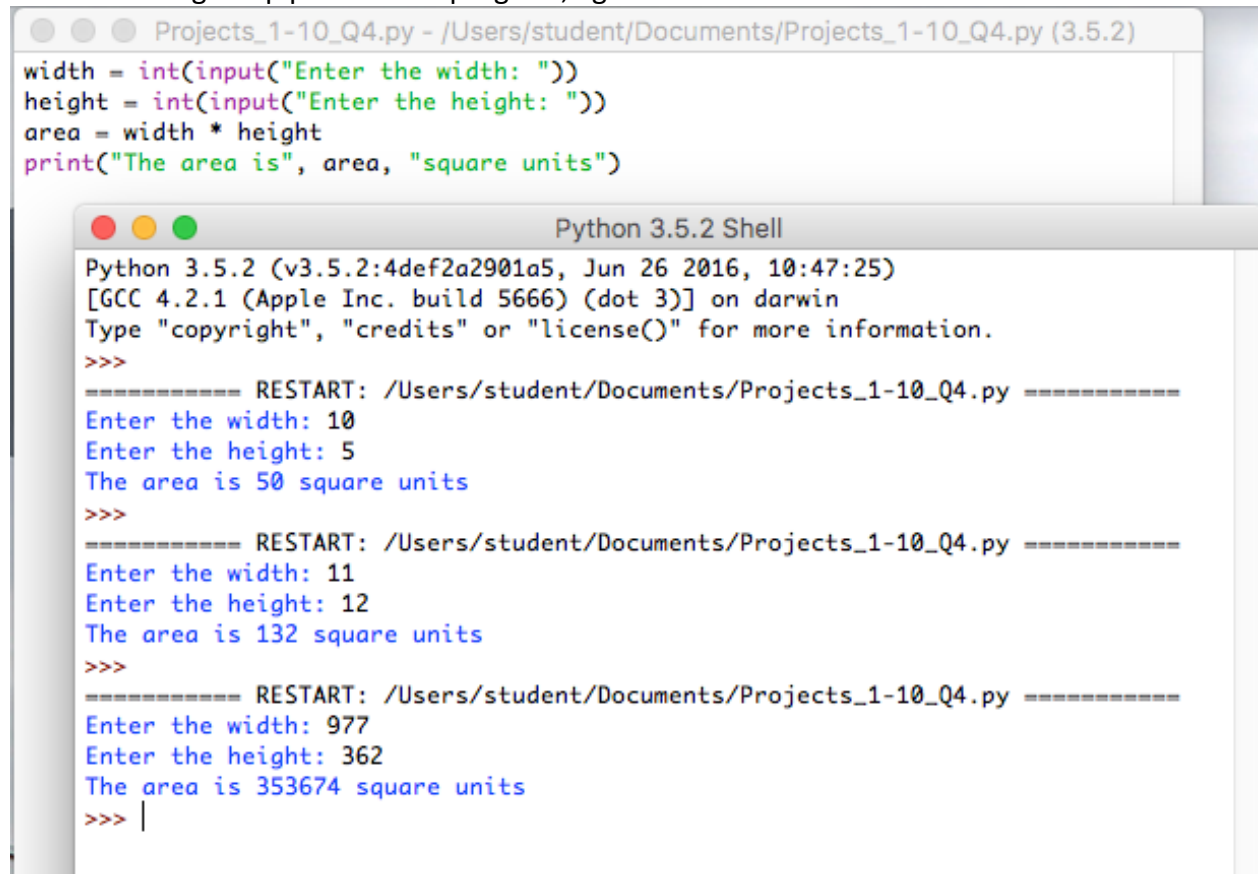
Ln: 14 Col: 4

4. Project #4: The program as shown in the exercise gave a syntax error...



```
Projects_1-10_Q4.py - /Users/student/Documents/Projects_1-10_Q4.py (3.5.2)
width = int(input("Enter the width: "))
height = int(input("Enter the height: "))
area = width * height
print("The area is", area, "square units")
|
```

After removing the pipe from the program, I got these results...



```
Projects_1-10_Q4.py - /Users/student/Documents/Projects_1-10_Q4.py (3.5.2)
width = int(input("Enter the width: "))
height = int(input("Enter the height: "))
area = width * height
print("The area is", area, "square units")

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.
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q4.py =====
Enter the width: 10
Enter the height: 5
The area is 50 square units
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q4.py =====
Enter the width: 11
Enter the height: 12
The area is 132 square units
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q4.py =====
Enter the width: 977
Enter the height: 362
The area is 353674 square units
>>> |
```

5. Project #5:

```
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q5.py =====
Enter the triangle's base: 10
Enter the triangle's height: 5
The area is 25.0 square units
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q5.py =====
Enter the triangle's base: 11
Enter the triangle's height: 12
The area is 66.0 square units
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q5.py =====
Enter the triangle's base: 977
Enter the triangle's height: 362
The area is 176837.0 square units
>>>
```

Projects_1-10_Q5.py - /Users/student/Documents/Projects_1-10_Q5.py (3.5.2)

```
base = int(input("Enter the triangle's base: "))
height = int(input("Enter the triangle's height: "))
area = .5 * base * height
print("The area is", area, "square units")
```

6. Project #6:

Projects_1-10_Q6.py - /Users/student/Documents/Projects_1-10_Q6.py (3.5.2)

```
radius = int(input("Enter the circle's radius: "))
area = 3.14 * radius ** 2
print("The area is", area, "square units")
```

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.
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===== RESTART: /Users/student/Documents/Projects_1-10_Q6.py =====
Enter the circle's radius: 10
The area is 314.0 square units
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q6.py =====
Enter the circle's radius: 16
The area is 803.84 square units
>>>
===== RESTART: /Users/student/Documents/Projects_1-10_Q6.py =====
Enter the circle's radius: 362
The area is 411478.16000000003 square units
>>> |
```

7. Project #7:

```
Projects_1-10_Q7.py - /Users/student/Documents/Projects_1-10_Q7.py (3.5.2)
name = input("Enter your name: ")
age = int(input("Enter your age: "))
print(name, "is", age, "years old.")

Python 3.5.2 Shell
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 26 2016, 10:47:25)
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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.

===== RESTART: /Users/student/Documents/Projects_1-10_Q7.py =====
Enter your name: Robin G. Blaine
Enter your age: 47
Robin G. Blaine is 47 years old.
>>>

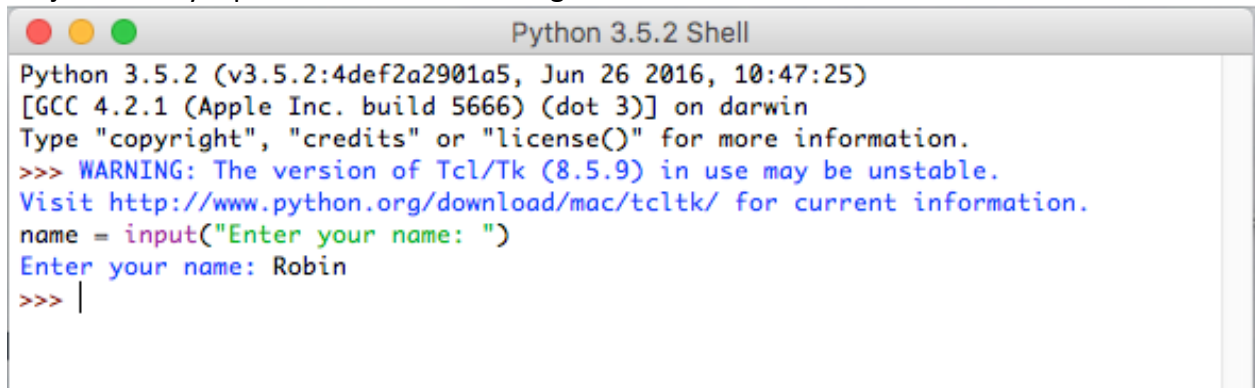
===== RESTART: /Users/student/Documents/Projects_1-10_Q7.py =====
Enter your name: Rocky M.
Enter your age: 22
Rocky M. is 22 years old.
>>>

===== RESTART: /Users/student/Documents/Projects_1-10_Q7.py =====
Enter your name: Greg D.
Enter your age: 29
Greg D. is 29 years old.
>>> |
```

8. Project #8: The *raw_input* function was renamed to *input* in Python 3. A naked input statement inputs the variable as a string and cannot be added directly to an integer.

```
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[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.
n = raw_input("--> ")
Traceback (most recent call last):
  File "<pyshell#0>", line 1, in <module>
    n = raw_input("--> ")
NameError: name 'raw_input' is not defined
>>> n = input("--> ")
--> 10
>>> n + 1
Traceback (most recent call last):
  File "<pyshell#2>", line 1, in <module>
    n + 1
TypeError: Can't convert 'int' object to str implicitly
>>>
```

9. Project #9: my input was stored as a string in the variable *name*



```
Python 3.5.2 Shell
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[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.
name = input("Enter your name: ")
Enter your name: Robin
>>> |
```

10. Project #10:

```
*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.
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> modules

Please wait a moment while I gather a list of all available modules...

IN                _threading_local  grp                runpy
Projects_1-10_Q2  _tkinter           gzip               sched
Projects_1-10_Q4  _tracemalloc       hashlib            select
Projects_1-10_Q5  _warnings          heapq              selectors
Projects_1-10_Q6  _weakref            hmac               setuptools
Projects_1-10_Q7  _weakrefset         html               shelve
__future__        abc                 http               shlex
_ast              aifc                idlelib            shutil
_bisect           antigravity          imaplib            signal
_bootlocale       argparse            imghdr             site
_bz2              array               imp                smtpd
_codecs           ast                  importlib          smtplib
_codecs_cn        asynchat             inspect            sndhdr
_codecs_hk        asyncio              io                 socket
_codecs_iso2022   asyncore             ipaddress          socketserver

Ln: 26 Col: 0
```