## CSC365 Script Languages - Chapter 4 Assignment – Draw Shapes

**Help with Turtle:**

* **HINT:** to keep your turtle window open, you need to add: turtle.done()
* [Learn Python Programming - 3 - The Turtle (Links to an external site.)](https://youtu.be/oAz5eIpgTpg)
* [https://cleverprogrammer.teachable.com/p/learn-python (Links to an external site.)](https://cleverprogrammer.teachable.com/p/learn-python)
* [https://michael0x2a.com/blog/turtle-examples (Links to an external site.)](https://michael0x2a.com/blog/turtle-examples)
* [https://www.geeksforgeeks.org/turtle-programming-python/ (Links to an external site.)](https://www.geeksforgeeks.org/turtle-programming-python/)
* [https://www.vivaxsolutions.com/web/python-turtle.aspx (Links to an external site.)](https://www.vivaxsolutions.com/web/python-turtle.aspx)

Write a Shape Drawing application with the following requirements:

* Must have the following modules:
  + Application main menu script (like Chapter 4’s book\_apps: convert\_temperatures.py)
  + All data input validation module (like Chapter 4’s solutions: validation.py)
    - Optionally use try-except for numeric inputs
  + 4 different shape modules, that allows the user some control over the shape’s size & color
    - User input should also be in this module (not the main menu script)
    - If you find a shape on the internet, you must heavily document it to prove you understand what it’s doing, but you must customize it. You also need to include the URL reference in your documentation.
* All modules must have a main function for testing purposes
* Use f-strings when appropriate for input/output alignment
* Proper Docstring, authorship meta data, and inline documentation
  + Don’t forget to include your GitHub URL in all your heading documentation
* Make sure PyCharm isn't reporting any warnings
* Proper use of GitHub repository (regular pushes from both programmers)
* You might also want to use PyCharm’s CodeWithMe
* Attach the following files to your assignment:
  + All Python .py program files (scripts & modules)
  + Instead of attaching a text file with your console output, please attach a Word document that includes both your console output (using courier new font) and example of what each of your shapes look like running.
  + Assignment reflection in the comment area the Good, Bad, and Ugly

**Help with try-except:**

* <https://www.w3resource.com/python-exercises/python-basic-exercise-113.php>

**Help with f-string:**

* https://mkaz.blog/code/python-string-format-cookbook/
* https://realpython.com/python-f-strings/
* <https://miguendes.me/73-examples-to-help-you-master-pythons-f-strings>
* <https://www.30secondsofcode.org/articles/s/6-python-f-strings-tips>
* <https://datagy.io/python-f-strings/>