## Using Python on Windows:

1. Write the program in text editor such as notepad and save it with the extension .py, such as *cirles.py*, e.g.:

import turtle def twoCircles(): t = turtle.Turtle() # Draw the X and Y axes t.up() # don't draw yet t.goto(0, 200) t.down() t.right(90) t.forward(400) t.up() t.goto (-200, 0) t.down() t.left(90) t.forward(400) # Draw two circles, first at the origin t.up() t.goto(0, -100) t.down() t.circle(100) # Draw the second of the two cirles t.up() t.goto(0, 100) t.down() t.circle(100)

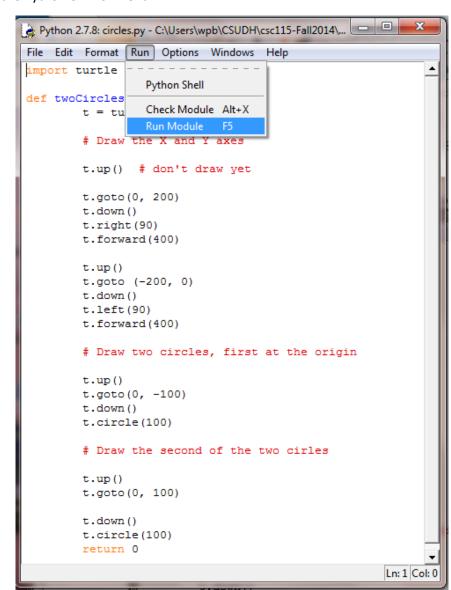
2. Start the Python GUI environment on Windows and select a module to run via the *File Menu*:



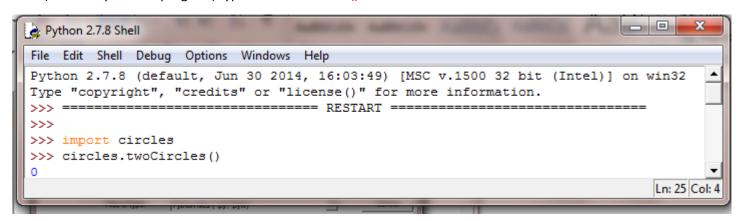
return 0

3. Run the module (via Run Module on the Run menu), which imports it into the Python environment:

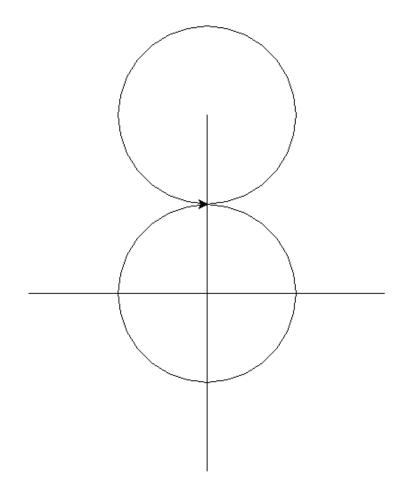
```
Python 2.7.8: circles.py - C:\Users\wpb\CSUDH\csc115-Fall2014\...
File Edit Format Run Options Windows Help
import turtle
def twoCircles():
        t = turtle.Turtle()
        # Draw the X and Y axes
        t.up() # don't draw yet
        t.goto(0, 200)
        t.down()
        t.right(90)
        t.forward(400)
        t.up()
        t.goto (-200, 0)
        t.down()
        t.left(90)
        t.forward(400)
        # Draw two circles, first at the origin
        t.up()
        t.goto(0, -100)
        t.down()
        t.circle(100)
         # Draw the second of the two cirles
        t.goto(0, 100)
        t.down()
        t.circle(100)
        return 0
                                                      Ln: 1 Col: 0
```



- 4. Sample Run: "Run"-ning the module will incorporate it into the Python environment
  - a. In the Python Shell window, type import circles followed by a carriage return.
  - b. Next (to actually run the program) type circles.twoCircles():



5. Result:



## Notes:

- 1. On UNIX systems, such as a Mac or Linux, Python is easier to use; Windows is easier now than in the past -- this chart describes an older version that tends to be very compatible/portable across nearly all systems
- 2. We are using Python 2.x in class; Python 3.x should be used when possible
- 3. Moving a text file from one system to another, e.g., PC to Mac or Linux is easy in Python just email the text file