

## Episode 1 Homework

1. Open a new file. Make sure it's the only active file in your tabs. Save it under an appropriate name to your Python\_Programs directory. Type the code to
  - a. Set x to 15.
  - b. Print x to your IPython console.
  - c. Set y to 11.
  - d. Print y to your IPython console.
  - e. Enter x+y directly into the IPython console and observe the result. This is called expression evaluation.
  - f. What happens when you type the line x+y into the editor panel?
2. Make a copy of SinePlot.py as CosPlot.py. Open that file in Spyder. Change sin(x) to cos(x). Observe the pop-up boxes when you type cos().
  - a. Run the program with the only change being cos for sin.
  - b. Change the first two items after linspace( to  $-0.5*\text{plt.pi}$ ,  $0.5*\text{plt.pi}$