* + - * The objectives of this exercise are to
        + Become familiar with the Python development environment
        + Demonstrate the ability to execute a Python program
        + Demonstrate an understanding of documentation requirements for software programs
        + Demonstrate knowledge of course file naming conventions and the assignment submission procedure
* Descriptor (assignment name): PythonDemo
* Preparation
* Read [Thinking Like a Computer Scientist](https://mail.lmu.edu/owa/redir.aspx?C=jhmy8pwbrUuSNLIe7QYsHx2cEUsKK9EIPjjD5nIRFhPx5dYvVocLHozjSklSKt1oqIEY9AvIfgU.&URL=http%3a%2f%2fopenbookproject.net%2fthinkcs%2fpython%2fenglish3e%2fway_of_the_program.html)
  1. General Introduction
  2. Simple Python Data
  3. Debugging Interlude
* Work with another student on this assignment.
* Exercise #1 (Pair programming)
* Download a copy of the Python template **python\_template.py** (below) from Canvas
  + See module **Python Resources > python\_template.py**
* Each member of the pair needs to upload to the assignment:
  1. A short Python program (**.py** file) that you ran and modified. This can be one of the examples from the book. Include the file header in **python\_template.py** making appropriate substitutions for the terms in angle brackets (< >).
  2. A description of your program in PDF format that includes
     + Brief description of what your program does and how it does it
     + A flowchart for your program (this can be hand drawn, or drawn using gliffy or Raptor
  3. README file in an ASCII text (**.txt**) file that
     + Briefly describes the program
     + Tells the user how to run the program

**python\_template.py**

**# <filename>.<file extension>**

**#**

**# Assignment: <Assignment>**

**#**

**# Copyright (c) <year> <owner>**

**# <owner address>**

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**#**

**# <Applicable use statement; see**

**# https://www.gnu.org/licenses/gpl-howto.html**

**# for sample license>**

**#**

**# Description: <file description (contents, general outline, related**

**# dependencies and/or assumptions)**

**# continuing on indented lines as needed>**

**#**

**# Created by: <programmer’s name> Date: <date created>**

**#**

**# Change History:**

**# <date> <programmer> .Initial version.**

**# <date> <programmer> .<change, which**

**# would continue indented on the next line>**

**# <date> <programmer> .<add each new change to the end of the list>**

**#**

**# ----------------------------------------------------------------------**

**#**