

**TODO:**

- Make sure python3 is installed on lab computers
- Make sure Pillow and flask are installed on lab computers

Assignment 1: point to learnpython.org website.

Assignment 2: download exercises1.py -- instructions for completing.

Assignment 3: Debugging exercises. make them type them in. ask questions.

Assignment 4: functions on learnpython.org

Assignment 5: image exercises

# need a worksheet for stepping through downloading the code?

# review the skeleton code for copying the image

# give them flipVertical as mystery method and have them guess what it will do then run it

# have them implement flipHorizontal

# have them implement makeGreyscale

# have them work through the rotate algorithm then present then try to implement

**Day 1**

[https://www.learnpython.org/en/Hello%2C\\_World%21](https://www.learnpython.org/en>Hello%2C_World%21)

- Interactive tutorial, introduce students to online resources and how they can be used
- Complete online tutorial exercises through Loops lesson
- Have students work on "exercises1" (1-3)
- Present solutions – discuss bugs that appeared
- "exercises1" 4-5 as homework

**Day 2**

- present solutions to "exercises1" 4-5

- debugging exercises

- syntax

- logic

- tutorial on functions

**Day 3**

- image exercise (start on day 2?)

**Day 4**

- http server?