# Lab 1 - Wed 7/18

Warm-up

* Python tutorial: <https://www.waiwaing.com/python/>
* Get acquainted with Hamster and its API. Learn about the APIs in robotAPI.txt. Methods to be used: set\_wheel(), set\_led(), set\_buzzer(), set\_musical\_note() to understand how to control Hamster using provided API.
* Understand how Hamster sensors work by using get\_proximity(), get\_floor(). Get familiar with range of sensor readings and how reading changes with distance and surface color.

Check-off 1

* Implement the following Hamster behaviors:
  + Moving along a square without using sensors
  + Using proximity sensors, implement shy, dance, and follow
  + Using floor sensors, implement line following
* Add buttons to the starter program and implement all the behaviors in one program

Optional

* Implement maze solver using side sensor attachment. Ask TAs for the attachment.