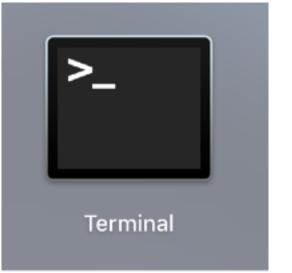
- To actually run OpenMM, you need to invoke a Python script.
- Python scripts are run from a command-line interface (cli). On a Mac, you can
 get to a cli by starting the Launchpad, clicking on the "Other" group, and
 starting the "Terminal" app.
- Once you start the terminal, enter the following commands
 - `cd ~/Desktop/OpenMM', which changes your current directory to the directory where the files are
 - 'Is' lists the contents of the current directory. It isn't 100% necessary but useful to check.
 - python MD_ubq.py' actually runs the script





```
(openmm) Minh-IIT-MBP2018:[~]: cd ~/Desktop/OpenMM
(openmm) Minh-IIT-MBP2018:[~/Desktop/OpenMM]: ls
1ubq.pdb MD_ubq.py
(openmm) Minh-IIT-MBP2018:[~/Desktop/OpenMM]: python MD_ubq.py
```

- When you run the script, you will see some output to the console. This is mostly from the StateData reporter
 - Notice that the potential energy goes slightly up. This is because we started with a minimized structure.
- If you type `ls' again, you will see that the simulation created two files
 - ubq_mod.pdb the model that includes hydrogen but not water
 - trajectory.dcd the actual simulation data

```
(openmm) Minh-IIT-MBP2018:[~/Desktop/OpenMM]: python MD_ubq.py
Minimizing...
Running Production...
                                         "Potential Energy (kJ/mole)"
                                                                          "Temperature (K)"
                                                                                                   "Speed (ns/day)"
#"Progress (%)" "Step" "Time (ps)"
Time Remaining"
10.0%
                0.20000000000000015
        100
                                         -12936.42476230517
                                                                  183.51751922475094
20.0%
        200
                0.4000000000000003
                                         -12646.180945641867
                                                                                           66.3
                                                                                                   0:02
                                                                                           63.9
30.0%
        300
                0.6000000000000004
                                                                                                   0:01
                                         -12391.382319417527
40.0%
        400
                0.8000000000000006
                                         -12397.931712869551
                                                                                           63.2
                                                                                                   0:01
                                                                  252.91336736415292
50.0%
                1.00000000000000007
                                         -12164.42101471391
                                                                                           63.7
                                                                                                   0:01
                                                                  261.4505010540196
60.0%
        600
                                         -11959.584803213324
                                                                                           63.9
                                                                                                   0:01
                1.2000000000000000
70.0%
        700
                                                                                           64.1
                                                                                                   0:00
                                         -11810.354813818332
                1.4000000000000001
80.0%
        800
                                         -11819.44354535209
                                                                                           64.5
                                                                                                   0:00
                1.6000000000000012
90.0%
                1.8000000000000014
                                         -11761.649241585736
                                                                                           64.6
                                                                                                   0:00
                                                                                                   0:00
                                         -11685.676062540104
                                                                  281.4727076092732
Done!
(openmm) Minh-IIT-MBP2018: [~/Desktop/OpenMM]: ls
               MD_ubq.py trajectory.dcd ubq_mod.pdb
1ubq.pdb
(openmm) Minh-IIT-MBP2018:[~/Desktop/OpenMM]:
```