MSBA – Optimization 2
Instructions for Atari with python

There are separate instructions for doing this on your machine and on Colab. Before you can do either, there are a few steps you need to follow.

1) Go to http://www.atarimania.com/rom_collection_archive_atari_2600_roms.html
2) Download the roms file at the bottom of the page
    - This is a .rar file
3) Extract the .rar file
    - If you're on a Mac, download 'The Unarchiver' from the app store
    - If you're on a Windows machine, download 7-zip
4) The extracted folder contains 2 .zip files, leave these files alone, just remember where they're saved on your computer

Follow these instructions if you want to play Atari on your own machine:

1) Run the following 3 lines in your Terminal/AnacondaPrompt
    - conda install gym
    - conda install gym[atari]
    - python -m atari_py.import_roms /location/of/ROMs/
    You could also use pip instead of conda. In step c, /location/of/ROMs/ is the location on your machine where you saved those 2 .zip files. For example, on my Mac I saved them in a folder on my desktop, so I ran
    - python -m atari_py.import_roms /users/Dan/Desktop/Roms/
    If you use pip instead of conda, you may also have to run
    - pip install atari-py
    before you import the roms.
2) In your jupyter notebook just import gym and you're good to go!

Follow these instructions if you want to play Atari on Colab:
1) Gym is already installed in Colab, but it doesn't have the Atari roms
2) Upload those 2 .zip files somewhere on your GoogleDrive
3) Give your Colab notebook access to your GoogleDrive
    - from google.colab import drive
    - drive.mount('/content/drive')
    - Follow the pop-up window instructions
4) In your Colab notebook run the following line
    - !python -m atari_py.import_roms /location/of/ROMs/
    Here, /location/of/ROMs/ is the location on your GoogleDrive of those .zip files. For example, I created a folder called Roms in my GoogleDrive, so I ran
    - !python -m atari_py.import_roms /content/drive/MyDrive/Roms/
5) In your Colab notebook just import gym and you're good to go!
6) You'll have to redo steps 3-5 every time you open your Colab notebook

After you follow these instructions, you can check that it worked by running the atari_check.ipynb notebook that's on canvas.