Installing python and tensorflow

- 1. Go to https://www.anaconda.com/products/individual and install the latest version of anaconda. If anaconda is already installed, you can skip this step.
 - a. Tensorflow can be installed without anaconda, but the installation is a lot more complicated (especially if using the gpu) and will not be covered in this document. Antonio highly recommends using anaconda, but if you want to install it the old-fashioned way, you can find instructions online
- 2. After the installation open the Anaconda Prompt. It should look like this:



- 3. If your computer has a NVIDIA video card, type into the prompt:
 - a. conda create --name tf_gpu tensorflow-gpu seaborn pandas
- 4. If your computer doest **NOT** have an NVIDIA video card, type:
 - a. conda create --name tf_cpu tensorflow seaborn pandas
- 5. Type y when asked

```
pyjwt pkgs/main/win-64:pyjwt-1.7.1-py37_0
pyopenssl pkgs/main/win-64:pyopenssl-19.1.0-py, 1
pyreadline pkgs/main/win-64:pyopenssl-19.1.0-py, 1
pysocks pkgs/main/win-64:pyopenssl-19.1.0-py, 1
pysocks pkgs/main/win-64:pyopenssl-19.1.0-py, 1
python pkgs/main/win-64:pyopenssl-19.1.0-py, 1
python pkgs/main/win-64:pyopenssl-19.1.0-py, 1
python pkgs/main/moarch:requests-0.2.1.0-py, 0
requests-0.2.1.0-py, 0
pkgs/main/noarch:requests-0.2.1.0-py, 0
pkgs/main/moarch:requests-0.0.2.1.0-py, 0
pkgs/main/moarch:requests-0.0.2.1.0-py, 0
scipy pkgs/main/min-64:scipy-1.5.0-py, 0
sqlite pkgs/main/min-64:sciptools-40-2.0-py, 0
sqlite pkgs/main/min-64:sciptools-40-2.0-py, 0
pkgs/main/min-64:sciptools-40-2.0-py, 0
pkgs/main/moarch:repuests-0.0-py, 0
pkgs/main/min-64:repuests-0.0-py, 0
pkgs/main/mi
```

- 6. Type:
 - a. If video card: conda activate tf_gpu
 - b. If no video card: conda activate tf_cpu
- 7. To test installation type:
 - a. Python
 - b. In the python console type:

import tensorflow as tf
tf.reduce_sum(tf.range(1000))

The following should be printed in the console:

<tf.Tensor: shape=(), dtype=int32, numpy=499500>

If the code runs without error, tensorflow is installed correctly. If errors are shown, repeat steps 3-7.