Create a virtual environment for your project

1. In the terminal client enter the following where *yourenvname* is the name you want to call your environment, and replace *x.x* with the Python version you wish to use. (To see a list of available python versions first, type `conda search "^python$"` and press enter.)

```
conda create -n yourenvname python=x.x anaconda
```

- Press `y` to proceed. This will install the Python version and all the associated anaconda packaged libraries at "path_to_your_anaconda_location/anaconda/envs/yourenvname"

Activate your virtual environment.

1. To activate or switch into your virtual environment, simply type the following where *yourenvname* is the name you gave to your environement at creation.

```
source activate yourenvname
```

- Activating a conda environment modifies the PATH and shell variables to point to the specific isolated Python set-up you created. The command prompt will change to indicate which conda environemnt you are currently in by prepending `(yourenvname)`. To see a list of all your environments, use the command `conda info -e`.

Install additional Python packages to a virtual environment.

1. To install additional packages only to your virtual environment, enter the following command where *yourenvname* is the name of your environemnt, and *[package]* is the name of the package you wish to install. *Failure to specify "-n yourenvname" will install the package to the root Python installation.*

```
conda install -n yourenvname [package]
```

To install pytorch:
conda install pytorch torchvision cudatoolkit=10.2 -c pytorch

Deactivate your virtual environment.

1. To end a session in the current environment, enter the following. There is no need to specify the envname - which ever is currently active will be deactivated, and the PATH and shell variables will be returned to normal.

```
source deactivate
```

Delete a no longer needed virtual environment

1. To delete a conda environment, enter the following, where *yourenvname* is the name of the environment you wish to delete.

```
conda remove -n yourenvname -all
```

Steps to verify the install:

1. To use PyTorch we import torch.
2. To check the version, we use torch.__version__

Now, to verify our GPU capabilities, we use torch.cuda.is_available() and check the cuda version.

```
> torch.cuda.is_available()
True

> torch.version.cuda
'10.2'
```

References:

1. https://uoa-eresearch.github.io/eresearch-cookbook/recipe/2014/11/20/conda/
2. https://deeplizard.com/learn/video/UWlFM0R_x6I