Starting conda
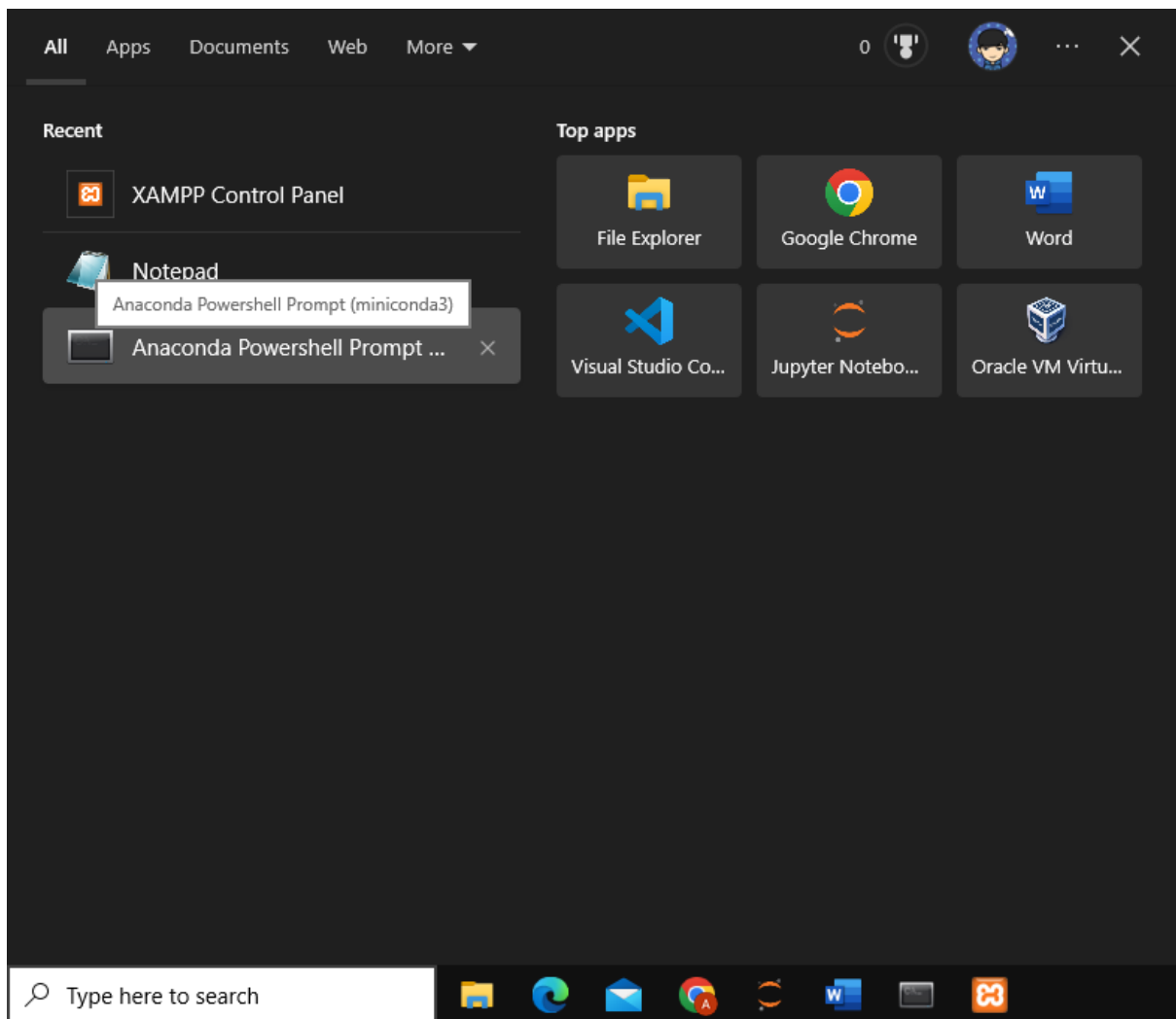

Managing conda

```
 Anaconda Powershell Prompt (miniconda3)                                    —    □    ×
  numpy                                     1.23.5-py310h60c9a35_0 --> 1.25.2-py310h055cbc ^
c_0
  numpy-base                                1.23.5-py310h04254f7_0 --> 1.25.2-py310h65a83c
f_0
  openssl                                       1.1.1u-h2bbff1b_0 --> 3.0.10-h2bbff1b_2
  pandas                                    1.5.3-py310h4ed8f06_0 --> 2.0.3-py310h4ed8f06
_0
  platformdirs                              2.5.2-py310haa95532_0 --> 3.10.0-py310haa9553
2_0
  pygments             pkgs/main/noarch::pygments-2.11.2-pyh~ --> pkgs/main/win-64::p
ygments-2.15.1-py310haa95532_1
  pyopenssl                                23.0.0-py310haa95532_0 --> 23.2.0-py310haa9553
2_0
  python                                       3.10.9-h966fe2a_0 --> 3.10.12-he1021f5_0
  sqlite                                       3.41.1-h2bbff1b_0 --> 3.41.2-h2bbff1b_0
  tornado                                   6.2-py310h2bbff1b_0 --> 6.3.2-py310h2bbff1b
_0
  typing-extensions                         4.4.0-py310haa95532_0 --> 4.7.1-py310haa95532
_0
  typing_extensions                         4.4.0-py310haa95532_0 --> 4.7.1-py310haa95532
_0
  urllib3                                  1.26.15-py310haa95532_0 --> 1.26.16-py310haa955
32_0
  xz                                           5.2.10-h8cc25b3_1 --> 5.4.2-h8cc25b3_0

The following packages will be DOWNGRADED:

  jupyter_client                            8.1.0-py310haa95532_0 --> 7.4.9-py310haa95532
_0


Proceed ([y]/n)? y


Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(base) PS C:\Users\Abi Rahman>
(base) PS C:\Users\Abi Rahman>
(base) PS C:\Users\Abi Rahman>
(base) PS C:\Users\Abi Rahman>
```

Create a new environment and install a package in it.

```
Anaconda Powershell Prompt (miniconda3)                                      —    □    ✕
 ca-certificates        pkgs/main/win-64::ca-certificates-2023.05.30-haa95532_0
 intel-openmp           pkgs/main/win-64::intel-openmp-2023.1.0-h59b6b97_46319
 libffi                 pkgs/main/win-64::libffi-3.4.4-hd77b12b_0
 mkl                    pkgs/main/win-64::mkl-2023.1.0-h6b88ed4_46357
 mkl-service            pkgs/main/win-64::mkl-service-2.4.0-py311h2bbff1b_1
 mkl_fft                pkgs/main/win-64::mkl_fft-1.3.6-py311hf62ec03_1
 mkl_random             pkgs/main/win-64::mkl_random-1.2.2-py311hf62ec03_1
 numpy                  pkgs/main/win-64::numpy-1.25.2-py311hdab7c0b_0
 numpy-base             pkgs/main/win-64::numpy-base-1.25.2-py311hd01c5d8_0
 openssl                pkgs/main/win-64::openssl-3.0.10-h2bbff1b_2
 pip                    pkgs/main/win-64::pip-23.2.1-py311haa95532_0
 python                 pkgs/main/win-64::python-3.11.4-he1021f5_0
 setuptools             pkgs/main/win-64::setuptools-68.0.0-py311haa95532_0
 sqlite                 pkgs/main/win-64::sqlite-3.41.2-h2bbff1b_0
 tbb                    pkgs/main/win-64::tbb-2021.8.0-h59b6b97_0
 tk                     pkgs/main/win-64::tk-8.6.12-h2bbff1b_0
 tzdata                 pkgs/main/noarch::tzdata-2023c-h04d1e81_0
 vc                     pkgs/main/win-64::vc-14.2-h21ff451_1
 vs2015_runtime         pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e58377_2
 wheel                  pkgs/main/win-64::wheel-0.38.4-py311haa95532_0
 xz                     pkgs/main/win-64::xz-5.4.2-h8cc25b3_0
 zlib                   pkgs/main/win-64::zlib-1.2.13-h8cc25b3_0


Proceed ([y]/n)? y


Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate snowflakes
#
# To deactivate an active environment, use
#
#     $ conda deactivate

(base) PS C:\Users\Abi Rahman> _
```

To use, or "activate" the new environment, type the following:

```
Anaconda Powershell Prompt (miniconda3)                                      —    □    ✕
#     $ conda deactivate

(base) PS C:\Users\Abi Rahman> conda activate snowflakes
(snowflakes) PS C:\Users\Abi Rahman> S_
```

To see a list of all your environments, type:

```
(snowflakes) PS C:\Users\Abi Rahman> conda info --envs
# conda environments:
#
base                     C:\Users\Abi Rahman\miniconda3
snowflakes           *   C:\Users\Abi Rahman\miniconda3\envs\snowflakes

(snowflakes) PS C:\Users\Abi Rahman>
```

Change your current environment back to the default (base):

```
(snowflakes) PS C:\Users\Abi Rahman> conda activate
(base) PS C:\Users\Abi Rahman> _
```

Managing Python

Create a new environment named "snakes" that contains Python 3.9: `conda create --name snakes python=3.9`

```
Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate snakes
#
# To deactivate an active environment, use
#
#     $ conda deactivate

(base) PS C:\Users\Abi Rahman>
```

Activate the new environment:

```
(base) PS C:\Users\Abi Rahman> conda activate snakes
(snakes) PS C:\Users\Abi Rahman>
```

Verify that the snakes environment has been added and is active:

```
(snakes) PS C:\Users\Abi Rahman> conda info --envs
# conda environments:
#
base                     C:\Users\Abi Rahman\miniconda3
snakes                 * C:\Users\Abi Rahman\miniconda3\envs\snakes
snowflakes               C:\Users\Abi Rahman\miniconda3\envs\snowflakes

(snakes) PS C:\Users\Abi Rahman>
```

Verify which version of Python is in your current environment:

```
(snakes) PS C:\Users\Abi Rahman> python --version
Python 3.9.17
(snakes) PS C:\Users\Abi Rahman> _
```

Deactivate the snakes environment and return to base environment: `conda activate`

```
(snakes) PS C:\Users\Abi Rahman> conda activate
(base) PS C:\Users\Abi Rahman> _
```

Managing packages

1. To find a package you have already installed, first activate the environment you want to search. Look above for the commands to activate your snakes environment.
2. Check to see if a package you have not installed named "beautifulsoup4" is available from the Anaconda repository (must be connected to the Internet):

```
conda search beautifulsoup4
```

```
(snakes) PS C:\Users\Abi Rahman> conda search beautifulsoup4
Loading channels: done
# Name                       Version           Build  Channel
beautifulsoup4                 4.6.0          py27_1  pkgs/main
beautifulsoup4                 4.6.0  py27hc287451_1  pkgs/main
beautifulsoup4                 4.6.0          py35_1  pkgs/main
beautifulsoup4                 4.6.0  py35h61fcdcc_1  pkgs/main
beautifulsoup4                 4.6.0          py36_1  pkgs/main
beautifulsoup4                 4.6.0  py36hd4cc5e8_1  pkgs/main
beautifulsoup4                 4.6.0          py37_1  pkgs/main
beautifulsoup4                 4.6.1          py27_0  pkgs/main
beautifulsoup4                 4.6.1          py35_0  pkgs/main
```

Conda displays a list of all packages with that name on the Anaconda repository, so we know it is available.

3. Install this package into the current environment: conda install beautifulsoup4

```
Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(snakes) PS C:\Users\Abi Rahman>
```

4. Check to see if the newly installed program is in this environment: conda list

```
(snakes) PS C:\Users\Abi Rahman> conda list
# packages in environment at C:\Users\Abi Rahman\miniconda3\envs\snakes:
#
# Name                    Version                   Build  Channel
beautifulsoup4            4.12.2             py39haa95532_0
ca-certificates           2023.05.30              haa95532_0
openssl                   3.0.10                  h2bbff1b_2
pip                       23.2.1             py39haa95532_0
python                    3.9.17                  h1aa4202_0
setuptools                68.0.0             py39haa95532_0
soupsieve                 2.4                py39haa95532_0
sqlite                    3.41.2                  h2bbff1b_0
tzdata                    2023c                   h04d1e81_0
vc                        14.2                    h21ff451_1
vs2015_runtime            14.27.29016             h5e58377_2
wheel                     0.38.4             py39haa95532_0
(snakes) PS C:\Users\Abi Rahman> _
```