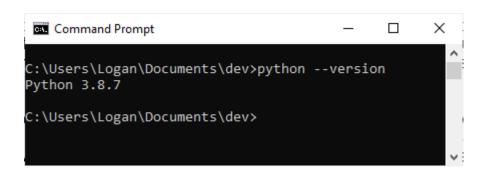
2.1 Getting Started with Django

- 2. Django is so popular among web developers because Django's MVT architecture ensures development is fast and easy. Django is implemented in Python which is easy to read and has a lot of powerful computational features. Django is based on loosely coupled architecture, which makes it very simple to add new hardware and components, so scaling a Django project isn't a problem. Django is built with security in mind, allowing secure-by-design implementation with built-in automated encryption.
- 3. List Five large companies that use Django:
 - 1. Pinterest a social media platform for sharing images in order to give inspiration to their users for topics of interest. They use Django for their website and mobile app.
 - 2. Instagram a social media application for sharing photos and videos. They use Django for their website and mobile app.
 - 3. National Geographic a television network and popular magazine series focused on delivering educational content in subject areas like, science, culture, and history. They use Django for their education website.
 - 4. Spotify an audio streaming provider. Users listen to digital music and podcasts. Django is used for their back-end services and data analysis to increase its functionality.
 - 5. Mozilla is a global nonprofit which created the popular Firefox browser. They use Django to tackle large amounts of traffic and API hits more efficiently.
- 4. For each of the following scenarios, explain if you would use Django (and why or why not):
 - You need to develop a web application with multiple users. Yes this seems like a perfect project to use Django because to store your users information you will need a database and Django comes ready with the features to interact with one.
 - You need fast deployment and the ability to make changes as you proceed. Yes, Django
 would be a good fit because Django's MVT architecture ensures development is fast and
 easy and it's based on loosely coupled architecture, which makes it very simple to add
 new hardware and components.
 - You need to build a very basic application, which doesn't require any database access or file operations. No, this is not a good time to use Django because Django comes with a lot of overhead and support for features such as database access so your application will be unnecessarily slow and bloated.
 - You want to build an application from scratch and want a lot of control over how it works.
 No, this is not a good time to use Django because Django comes with a lot of pre-written code and you have to follow a very specific design pattern when using this framework.
 - You're about to start working on a big project and are afraid of getting stuck and needing additional support. Yes, this is a good time to use Django because Django is good for large projects and is very popular so you will be able to find a lot of support online.



C:\Users\Logan\Documents\dev>mkvirtualenv achievement2-practice
created virtual environment CPython3.8.7.final.0-64 in 3726ms
 creator CPython3Windows(dest=C:\Users\Logan\Envs\achievement2-practice, clear=
False, no_vcs_ignore=False, global=False)
 seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle
, via=copy, app_data_dir=C:\Users\Logan\AppData\Local\pypa\virtualenv)
 added seed packages: pip==23.1.2, setuptools==68.0.0, wheel=0.40.0
 activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerSh
ellActivator,PythonActivator

(achievement2-practice) C:\Users\Logan\Documents\dev>

8.

```
X
Command Prompt
(achievement2-practice) C:\Users\Logan\Documents\dev>py -m pip install Django
Collecting Django
 Using cached Django-4.2.3-py3-none-any.whl (8.0 MB)
Collecting asgiref<4,>=3.6.0 (from Django)
 Using cached asgiref-3.7.2-py3-none-any.whl (24 kB)
Collecting sqlparse>=0.3.1 (from Django)
 Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting backports.zoneinfo (from Django)
 Using cached backports.zoneinfo-0.2.1-cp38-cp38-win amd64.whl (38 kB)
Collecting tzdata (from Django)
 Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
Collecting typing-extensions>=4 (from asgiref<4,>=3.6.0->Django)
 Using cached typing_extensions-4.7.1-py3-none-any.whl (33 kB)
Installing collected packages: tzdata, typing-extensions, sqlparse, backports.zoneinfo
asgiref, Django
Successfully installed Django-4.2.3 asgiref-3.7.2 backports.zoneinfo-0.2.1 sqlparse-0.
4.4 typing-extensions-4.7.1 tzdata-2023.3
[notice] A new release of pip is available: 23.1.2 -> 23.2
[notice] To update, run: python.exe -m pip install --upgrade pip
(achievement2-practice) C:\Users\Logan\Documents\dev>django-admin --version
4.2.3
(achievement2-practice) C:\Users\Logan\Documents\dev>
```