- 1. Write two to three sentences on why Django is so popular among web developers.
 - Opjango is popular because it uses Python, which is easy to read and powerful, supporting both backend and frontend development. Its MVT architecture allows for rapid development, fast processing, and scalability, while adhering to DRY principles for efficient code. Additionally, Django offers robust security features, supports content delivery networks, and has a large, supportive open-source community.
- 2. After some research, list five large companies that use Django.

 Specify what the company's product or service is and what they use Django for.
 - Instagram: uses Django to manage its massive user base and handle the high volume of data and interactions efficiently.
 - <u>Pinteres</u>t: uses Django to manage its extensive content management system and ensure fast content delivery.
 - Spotify: uses Django for its backend services to handle user data, playlists, and recommendations.
 - Mozilla: uses Django for several of its web applications and services, including the Mozilla Developer Network (MDN) documentation site.
 - <u>Disqus</u>: uses Django to manage user comments, data storage, and moderation tools effectively.
- 3. 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, because it has built-in authentication and user management features.
- You need fast deployment and the ability to make changes as you proceed.
 - Yes, because its MVT architecture supports rapid development and easy modifications.
- You need to build a very basic application, which doesn't require any database access or file operations.
 - No, a simpler framework like Flask would be more appropriate.
- You want to build an application from scratch and want a lot of control over how it works.
 - i. No, its built-in features may limit flexibility and control.
- You're about to start working on a big project and are afraid of getting stuck and needing additional support.
 - Yes, it's robust, scalable, and has extensive community support.

4. Python version

(web-dev) C:\Users\Anthony\Documents\achievement2-practice>python --version Python 3.12.4

5. VirtualEnv create

C:\Users\Anthony\Documents>cd achievement2-practice

C:\Users\Anthony\Documents\achievement2-practice>mkvirtualenv web-dev

created virtual environment CPython3.12.4.final.0-64 in 353ms

creator CPython3Windows(dest=C:\Users\Anthony\Envs\web-dev, clear=False, no_vcs_ignore=False, global=False)

seeder FromAppData(download=False, pip=bundle, via=copy, app_data_dir=C:\Users\Anthony\AppData\Local\pypa\virtualenv)

added seed packages: pip==24.0

activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator

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

6. Django install

```
(web-dev) C:\Users\Anthony\Envs>web-dev\Scripts\activate.bat

(web-dev) C:\Users\Anthony\Envs>web-dev\Scripts\activate.bat

(web-dev) C:\Users\Anthony\Envs>yeb-dev\Scripts\activate.bat

(web-dev) C:\Users\Anthony\Envs>py -mpi pirstall Django

Collecting Django

Collecting Django

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