Task 2.1

Write two to three sentences on why Django is so popular among web developers.

The Django framework reduces the time needed for projects partially due to Django handling the control flow instead of the developer. Django also comes prepackaged with most of the essential tools needed for development.

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.

Youtube: A video sharing platform that switched from PHP to Django so they could handle rapid audience growth while implementing new features and maintaining the speed of the website.

Instagram: This photo and video sharing app uses Django helps with scalability, so developers can focus on UI and UX instead of the backend.

Spotify: This music streaming app uses Python for its Machine Learning aspects, and Django provides the full range of Python features to handle the app along with its massive amount of data.

Bitbucket: A cloud-based git repository that uses Django for its ready-to-implement solutions that save developers time.

DropBox: A cloud-based storage platform that uses Django to implement its user history option, synchronize an account across different devices, and add various types of file-sharing options.

Mozilla: After this browser began to surge in popularity and the number of users grew, Mozilla switched from PHP + CakePHP to Python + Django. Django powers the Mozilla support site as well as its add-ons.

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.**

  I would use Django, since it is highly scalable and offers many ways to interact with data.

- **You need fast deployment and the ability to make changes as you proceed**

  Since Django handles low-level operations, it would be a suitable pick for fast deployment.

- **You want to build an application from scratch and want a lot of control over how it works.**

  I would not pick Django for this project, since Django takes a bit of control away from developers and the project would have to be built around Django.

- **You're about to start working on a big project and are afraid of getting stuck and needing additional support.**

  Django is more suitable for larger projects, and has plenty of community support, so I would feel comfortable choosing it for this project.

```
 C:\Users\Winter Wolf\Desktop\Projects\Python for Web Developers\Exercise 1.7>py --version
 Python 3.8.7
(achievement2-practice) C:\Users\Winter Wolf\Desktop\Projects\Python for Web Developers\Exercise 1.7>
PS C:\Users\Winter Wolf\Desktop\Projects\Python for Web Developers\Exercise 1.7> py -m django --version
4.2.7
```