Exercise 2.1

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

Reasons why Django is popular amongst web developers is 1 that Django follows the DRY principle and Django comprehensive feature set. Django is powerful and has a comprehensive feature set where it includes ORM, built- in authentication, routing URL and has an admin interface. The DRY principle is basically promoting efficient development and allows developers to not do the same task over again.

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.
● Disquis: Allows to implement comments and discussions with the options on the website and be able to analyze audience activity and create ad serving. Django is used to create the website fast and also scale to have it for a million users.
● PADI Travel: Offer sixers a selection of liveaboards, dive resorts and dive centers around the world. Django is used for implementing high load booking engine, shopping mechanism and an advanced filtering system.
● Instagram: Is a social network for people to share their lives on. Django is used as a significant amount of data is processed and stored.
● Spotify: Allows users to listen to music from various artists. Django is used for fast backend and machine learning options
● Youtube: A website where content creators share their work and allows users to interact with their favorite creators. Django is used to implement new features.

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:
Django could be used in this scenario because Django provides build-in features that can be used which are authentication for users, session management and access control.

You need fast deployment and the ability to make changes as you proceed.:
Django could be used in this scenario as django is known for its fast speed development and its flexibility of being able to deploy quickly and iterative development when needed.

You need to build a very basic application, which doesn't require any database access or file operations.
Django would not be useful in this scenario as Django is mainly used to handle complex applications with interactions with the database

You want to build an application from scratch and want a lot of control over how it works.
Django would be useful in this scenario as this requires a high level of control with being able to be flexible which allows web developers to create

You're about to start working on a big project and are afraid of getting stuck and needing additional support.
Django is very popular in the community as a web developer which makes it good when working on large applications where the support is needed. The Django community has

extensive documentation, packages, tutorials and can help developers find solutions to their problems.