Exercise 2.1: Task Questions

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

   -Django is popular for several reasons including its MVT architecture which ensures fast development, scalability with its loosely coupled architecture that makes it simple to add new components or hardware, and its fast processing that handles content delivery at a high speed.

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.
   - Youtube - Django's scalability features allows easy expansion for busy sites. It also supports large amounts of content streaming.
   - Instagram - Django ensures high performance and security for its massive audience.
   - Spotify - Django handles large amounts of data that is accessible on every device.
   - Pinterest - Django helps users subscribe to other users and share their boards, and because it's scalable and fast.
   - Dropbox - Django allows for high security, user account management, and access control.

3. For each of the following scenarios, explain if you would use Django (and why or why not):
   a. You need to develop a web application with multiple users.
      - Yes, because the framework has built-in authentication features.
   b. You need fast deployment and the ability to make changes as you proceed.
      -Yes, because it provides you with basic prerequisites to get your application up and running quickly. Its scalability allows you to make changes easily as well.
   c. You need to build a very basic application, which doesn't require any database access or file operations.

- No, because its use of prewritten code makes it heavy for low-bandwidth systems. Flask is better suited for simple projects due to its lightweight framework and it doesn't come pre-installed with a lot of boilerplate code.

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

- No, because it is a highly structured web framework that does things in a certain way and doesn't allow any flexibility.

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

- Yes, I would use Django because it has a huge community of contributors which allows for a lot of support if needed.