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

   o Django is popular because it is a high-level Python web framework that encourages rapid development and clean, pragmatic design. This feature-rich environment comes equipped with numerous extras such as authentication, content administration, and Object-Relational Mapping for database interactions. Django utilizes the "Don't Repeat Yourself" principle, which promotes code reuse and modularization. Django's built-in security features protect against common vulnerabilities like SQL injection and cross-site scripting, making it a trustworthy choice for developers.

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.

   o **Instagram:** As a rapidly growing social media platform, Instagram uses Django to manage the high volume of user activities and maintain robust security.

   o **YouTube:** This popular video-sharing platform relies on Django to swiftly implement new features and upgrades, enhancing its development process efficiency.

   o **Spotify:** As an online audio-streaming platform, Spotify combines Python with Django to ensure optimal functionality of its application.

   o **Disqus:** This network-based commenting system leverages Django's scalability and a variety of solutions to accommodate its growing user base.

   o **Mozilla:** Known for the Mozilla Firefox web browser, Mozilla uses Django to handle a large customer base and for the development of the addons.mozilla.org site.

   o

3. For each of the following scenarios, explain if you would use Django (and why or why not):

   o You need to develop a web application with multiple users.

     1. Django is well-suited for developing web applications with multiple users due to its robust authentication and authorization features, which help in managing user access and roles effectively.

   o You need fast deployment and the ability to make changes as you proceed.

     1. Django's design encourages rapid development, making it ideal for projects requiring quick deployment and iterative changes. Its modular nature allows for easy modification and extension of functionality.

o   You need to build a very basic application, which doesn't require any database access or file operations.

  1. While Django is capable, it might be overkill for very basic projects that do not require its extensive features, such as database integration or file operations.

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

  1. Django is excellent for building applications from scratch, offering a lot of control over functionality. Its clean design, along with a vast array of built-in features, makes it a suitable choice for comprehensive project development.

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

  1. Django, with its large and active community, extensive documentation, and wide adoption, is a reliable choice for big projects.

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Command Prompt                    ×    +   ∨

(achievement2-practice) C:\Users\Christian\Documents\Python>
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Command Prompt              ×    +   ∨

(achievement2-practice) C:\Users\Christian\Documents\Python>django-admin --version
4.2.7

(achievement2-practice) C:\Users\Christian\Documents\Python>
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Command Prompt              ×    +   ∨

(achievement2-practice) C:\Users\Christian\Documents\Python>django-admin --version
4.2.7

(achievement2-practice) C:\Users\Christian\Documents\Python>py --version
Python 3.8.7

(achievement2-practice) C:\Users\Christian\Documents\Python>
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