Task 2.1

1. **Write two to three sentences on why Django is so popular among web developers.**
   Django is popular due to its community support, and its high maintenance. It is perfect for fast prototyping because of its Django way framework structure. For larger projects, it is an excellent choice, especially if the project has a high bandwidth demand, for example, web pages like YouTube.

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.**
   Spotify
   - They are using Django for their web applications, and Python is good at using machine learning, which they use for their product.

   Instagram
   - They are using Django for their web applications. Instagram made efficiency and speed its top priority. Its website is also the world's largest deployment of the Django web framework.

   YouTube
   - It was first developed as a PHP-based project, but it switched to Django because of the rapid audience growth.

   Google
   - Google's Person Finder application is written in Python and uses Django as its web framework.

   Pinterest
   - They are using Python as the foundation of the Django framework. They are using Django for creating and maintaining a rapid and efficient web application.

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.**
      I would use Django, since for example, YouTube switched its stack to Django after they had rapid audience growth. Django is very good at scaling and works well with high bandwidth usage.

   b. **You need fast deployment and the ability to make changes as you proceed.**
      I would use Django because it's excellent for fast prototyping and at making changes.

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

I wouldn't use Django in this case. Django works poorly with low-bandwidth projects or projects without any database. I would use Flask instead if I still have to stick with Python.

d. **You want to build an application from scratch and want a lot of control over how it works.**
In this case, Django would be a wrong choice. If one uses Django, they have to give up some controls, because the app must be built with the "Django way".

e. **You're about to start working on a big project and are afraid of getting stuck and needing additional support.**
Then, Django would be a perfect choice because of its large and supportive community.

Django is installed in the virtual environment "web-dev".

```
(web-dev) C:\Users\zolta>django-admin --version
4.2.7
```

Created a new virtual environment called "achievement2-practice"

```
(achievement2-practice) H:\Web Development\Specialization\Projects>
```

Installed Django on the new virtual environment

```
(achievement2-practice) H:\Web Development\Specialization\Projects>django-admin --version
4.2.7
```