Week 5 - Capstone: Azure DevOps Pipeline for Supply Chain Script

Objective

Create a simple Azure DevOps pipeline that:

- Installs dependencies
- Executes a Python script
- Logs results and marks completion

Tools

- Azure DevOps
- Git
- Python

1. Project Setup

Ensure your local folder contains the following:

- requirements.txt

```
1 pandas
```

- run_pipeline.py

```
import logging

logging.basicConfig(filename='output.log', level=logging.INFO, format='%(asctime)s - %(message)s')

def run():
    logging.info('Starting pipeline task...')
    print('Supply Chain script ran successfully')
    logging.info('Script execution completed')

if __name__ == '__main__':
    run()
```

- YAML Pipeline File (azure-pipelines.yml)

5. Git Push Instructions

cd to your project folder

git push -u origin main

```
Initialize and push:
```

```
git init
git remote add origin <git@ssh.dev.azure.com:v3/----url>
git add .
git commit -m "Add pipeline and script"
```

6. Run the Pipeline

- 1. Go to Azure DevOps > Pipelines > New Pipeline
- 2. Choose Azure Repos Git
- 3. Select your repo
- 4. Use existing azure-pipelines.yml
- 5. Click Run

Deliverables

- Azure DevOps YAML pipeline file
- Execution log or console output