Flask Project Bash Commands Cheat Sheet

Navigation & Setup

```
cd P3-AdvPro/UNIT1-INTRO-TO-FLASK/01-Intro    # Navigate to project
pwd                                            # Check current location
ls -la                                         # List all files (including hidden)
```

Virtual Environment

```
python -m venv .venv                           # Create virtual environment
source .venv/bin/activate                      # Activate (Mac/Linux)
.venv\Scripts\activate                         # Activate (Windows)
deactivate                                     # Deactivate environment
pip freeze > requirements.txt                  # Save dependencies
pip install -r requirements.txt                # Install from requirements
```

File Operations

```
touch app.py                                   # Create empty Python file
echo "text" > filename.txt                     # Create file with content
echo "text" >> filename.txt                    # Append to file
cat filename.txt                               # View file contents
```

Git Commands

```
git init                                # Initialize repository
git status                              # Check status
git add .                               # Add all files
git add filename.txt                    # Add specific file
git commit -m "message"                 # Commit changes
git log --oneline                       # View commit history
```

GitHub CLI

```
gh auth login                           # Authenticate GitHub
gh auth status                          # Check authentication
gh repo create repo-name --public       # Create public repository
gh repo view --web                      # Open repo in browser
```

Flask Development

```
python app.py                           # Run Flask app
pip install Flask                       # Install Flask
pip freeze                              # Show installed packages
```

Project Structure Commands

```
tree                                    # Show folder structure (if installed)
find . -name "*.py"                     # Find all Python files
find . -name ".*"                       # Find hidden files
```

Useful Shortcuts

```
!!                                      # Run last command
history                                 # Show command history
Ctrl+C                                  # Cancel current command
Tab                                     # Auto-complete
↑/↓                                     # Navigate command history
```

Common File Patterns

```
*.py                                    # All Python files
.*                                      # All hidden files
__pycache__/                            # Python cache folder
.venv/                                  # Virtual environment folder
```

Quick Project Workflow

```
# Daily workflow
cd P3-AdvPro/UNIT1-INTRO-TO-FLASK/01-Intro
source .venv/bin/activate
python app.py

# After making changes
git add .
git commit -m "Add new feature"
git push

# Before closing
deactivate
```