

# Python Virtual Environment - Command Summary & Mini Project

## Virtual Environment Command Summary

### 1. Check Python Version:

```
> python --version
```

### 2. Create Virtual Environment:

```
> python -m venv myenv
```

### 3. Activate Virtual Environment:

Windows: > myenv\Scripts\activate

Linux/Mac: > source myenv/bin/activate

### 4. Install a Package (e.g., numpy):

```
> pip install numpy
```

### 5. Deactivate Virtual Environment:

```
> deactivate
```

### 6. Save Installed Packages:

```
> pip freeze > requirements.txt
```

### 7. Install from requirements.txt:

```
> pip install -r requirements.txt
```

## Mini Project: Weather Fetcher

Goal: Create a Python script that fetches weather data using the `requests` library.

Steps:

### 1. Create a folder: weather\_app

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2. Inside, run: `python -m venv venv`
3. Activate the environment
4. Install requests: `pip install requests`
5. Create `app.py` with the following code:

--- Python Code ---

```
import requests
```

```
city = input("Enter city: ")
```

```
response = requests.get(f"https://wttr.in/{city}?format=3")
```

```
print(response.text)
```

```
-----
```

6. Run your script: `python app.py`
7. Save dependencies: `pip freeze > requirements.txt`
8. Share your project with others including `requirements.txt`