

## Virtual Environment Tasks (Python)

### 1. Check Python Version

Command:

```
python --version  
or  
python3 --version
```

Example Output:

```
Python 3.10.6
```

### 2. Install virtualenv

Command:

```
pip install virtualenv
```

### 3. Create a Virtual Environment

Command:

```
virtualenv venv
```

### 4. Activate the Virtual Environment (Windows)

Command:

```
venv\Scripts\activate
```

Example Output:

```
(venv) C:\YourProjectFolder>
```

### 5. Deactivate the Virtual Environment

Command:

```
deactivate
```

### 6. List Installed Packages

Command:

```
pip list
```

Example Output:

Package	Version
-----	-----
pip	23.1.2
setuptools	67.7.2

### 7. Install a Package

Command:

```
pip install numpy
```

### 8. Uninstall a Package

Command:

```
pip uninstall numpy
```

### 9. Freeze Requirements

Command:

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

### 10. Install from Requirements

Command:

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