# Python Virtual Environment Setup (Bash - Windows & Linux)

### 1. Verify Python Installation

```
Before creating a virtual environment, ensure Python is installed:
```

```
```bash
python3 --version
```

If Python is not installed, download it from https://www.python.org/downloads/.

### 2. Create a Virtual Environment

```
Use the following command to create a virtual environment named `myenv`:

```bash
```

python3 -m venv myenv

### 3. Activate the Virtual Environment

### 4. Install Dependencies

```
To install dependencies from a `requirements.txt` file:

```bash

pip install -r requirements.txt

```

If you don't have a `requirements.txt` file, install packages manually:

```bash

pip install package_name
```

## 5. Save Installed Dependencies

To save all installed dependencies to a `requirements.txt` file:

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

### 6. Deactivate the Virtual Environment

To exit the virtual environment:

```
```bash
deactivate
```

### 7. Remove the Virtual Environment

If you want to delete the virtual environment completely:

```
```bash
rm -rf myenv
```

### 8. Common Issues and Fixes

```
#### Issue: "bash: myenv/bin/activate: No such file or directory"

**Solution:** Ensure the virtual environment was created correctly. Run:

```bash
Is myenv
```

If the folder does not exist, create the environment again:
```bash
python3 -m venv myenv
If the issue persists, check that Python is installed and accessible:
```bash
python3version
If necessary, reinstall Python and try again.