

# Shell Scripting: File and Folder Commands

## Basic Shell Commands Overview

- `pwd` - Prints current directory (absolute path)
- `clear` - Clears the terminal screen
- `cd` - Changes current directory
- Absolute Path - Starts from /, full path (e.g., /home/user/docs)
- Relative Path - Starts from current dir (e.g., ../folder)
- `mkdir` - Creates directory
- `rmdir` - Removes empty directory
- `rm -r` - Deletes directory and contents recursively
- `ls` - Lists files and folders
- `ls -R` - Lists all contents recursively

## Create and Edit Files

- `pwd` # Shows ~ (home directory)
- `touch planets` # Creates 0KB file
- `ls -l` # Detailed listing
- `vi planets` # Opens file in vi editor
- Press 'i' to insert
- Type your content
- Save using Esc :w
- Save and quit :wq
- Quit without saving :q!
- `cat planets` # View file
- `tac planets` # View in reverse
- `ls -l` # Check size increase

## Remove Files

- `vi test` # Create new file
- `:wq` # Save and quit
- `ls` # Check if created
- `rm test` # Remove file
- `ls` # Check if deleted

## Rename Files

```
mv ./planets ./viguide # Rename planets to viguide  
ls # Check the new name
```

## Create Folders and Subfolders

```
pwd # Confirm current directory (~)  
mkdir ./4june ./4june/cprogs  
ls -R # Recursive list of folders
```

## Copy Files

```
cp ./viguide ./4june # Copy viguide to 4june  
ls ./4june # Confirm copy
```

## Move Files

```
mv ./viguide ./4june/backup # Move viguide as backup  
ls ./4june # Confirm move
```

## Backup Folder Copy

```
mkdir backupfolder # Create folder in ~  
cp -r ./4june ./backupfolder # Copy 4june recursively  
ls -R # List all contents
```