# Learning Command Line for Windows (PowerShell)

## 1️⃣ Pick Your Shell

On Windows, you have 3 main ways to use the CLI:  
- Command Prompt (cmd) — older, simple, still used  
- PowerShell — modern, powerful, recommended for learning  
- Windows Terminal — nice interface to run cmd, PowerShell, or WSL  
  
👉 Install Windows Terminal from Microsoft Store for a better experience.

## 2️⃣ Learn Basic Navigation

PowerShell Commands (most work in cmd too):  
pwd — Show current directory  
ls or dir — List files/folders  
cd FolderName — Change directory  
cd .. — Go up one directory  
cls — Clear the screen  
  
Practice:  
- Open PowerShell (Win+X → Windows PowerShell)  
- Navigate around Documents or Downloads  
- List folders and go back to your home directory (cd ~)

## 3️⃣ Work with Files & Folders

mkdir TestFolder — Create folder  
New-Item file.txt — Create file  
echo "Hello" > file.txt — Write text to file  
type file.txt — View file content  
copy file.txt file2.txt — Copy file  
move file.txt ..\ — Move file  
del file.txt — Delete file  
rmdir TestFolder -Recurse — Delete folder

## 4️⃣ Get Help & Documentation

PowerShell help:  
Get-Help <command>  
Example: Get-Help Copy-Item  
Examples with help:  
Get-Help Copy-Item -Examples  
List commands:  
Get-Command

## 5️⃣ Learn Useful PowerShell Tools

Search text in files:  
Select-String "word" file.txt  
Find files by name:  
Get-ChildItem -Recurse -Filter \*.txt  
Check processes:  
Get-Process  
Kill process:  
Stop-Process -Id <PID>

## 6️⃣ Practice Projects

Ideas to get hands-on:  
- Organize Downloads by moving all .pdf into PDFs folder (PowerShell can filter by extension).  
- Create a script that renames multiple files at once (Rename-Item).  
- Make a backup script that copies certain files to another drive.

## 7️⃣ Learning Resources

Interactive & Guides:  
- Microsoft PowerShell Documentation (official)  
- Learn PowerShell in a Month of Lunches (beginner-friendly)  
  
Cheat Sheets:  
- SS64 PowerShell Commands  
- Microsoft Quick Reference  
  
Fun Learning:  
- PowerShell Game (learn by solving small exercises)