

cse15l-lab-reports

1. cd Command

No arguments: When you use `cd` with no arguments, it changes the directory to the user's home directory.

```
[parthshinde@Parths-MacBook-Air-3 Developer % pwd  
/Users/parthshinde/Developer  
[parthshinde@Parths-MacBook-Air-3 Developer % cd  
[parthshinde@Parths-MacBook-Air-3 ~ % pwd  
/Users/parthshinde  
parthshinde@Parths-MacBook-Air-3 ~ % █
```

Absolute path before command: `/Users/parthshinde/Developer`

Explanation: This command moves the working directory to the user's home directory. There's no error in this case.

Directory arguments: There's a directory named `Developer` in `/Users/parthshinde/`

```
[parthshinde@Parths-MacBook-Air-3 ~ % pwd  
/Users/parthshinde  
[parthshinde@Parths-MacBook-Air-3 ~ % cd Developer  
[parthshinde@Parths-MacBook-Air-3 Developer % pwd  
/Users/parthshinde/Developer  
█
```

Absolute path before command: `/Users/parthshinde/`

Explanation: This command changes the directory to `/Users/parthshinde/Developer`. If it exists, there's no error; otherwise, an error will indicate that the directory does not exist.

File as an argument: If you try to `cd` into a file, it will result in an error.

```
[parthshinde@Parths-MacBook-Air-3 ~ % pwd  
/Users/parthshinde  
[parthshinde@Parths-MacBook-Air-3 ~ % cd Desktop/example.txt  
cd: not a directory: Desktop/example.txt
```

Absolute path before command: /Users/parthshinde/

Explanation: Since `cd` is used to change directories and not to open files, using it with a file path will result in an error.

2. `ls` Command

No arguments: Lists files and directories in the current working directory.

```
[parthshinde@Parths-MacBook-Air-3 ~ % ls  
Applications      Library           go  
Desktop           Movies           node_modules  
Developer         Music            package-lock.json  
Documents         Pictures          package.json  
Downloads         Postman  
Google Drive      Public
```

Absolute path before command: /Users/parthshinde/

Explanation: This command lists all files and directories in /Users/parthshinde/. It's not an error.

Directory arguments: Lists files and directories in the specified directory.

```
[parthshinde@Parths-MacBook-Air-3 ~ % ls Developer  
CSE15             Personal          cse15l-lab-reports  
CSE_12_WI24       campus-mobile     flutter  
DSC_30_FA23       campus-mobile-bitbucket stuzz
```

Absolute path before command: /Users/parthshinde/

Explanation: This command lists the contents of /Users/parthshinde/Developer. If the directory exists, there's no error; otherwise, an error message will show.

File arguments: Lists the specified file if it exists.

```
[parthshinde@Parths-MacBook-Air-3 ~ % ls Desktop/example.txt  
Desktop/example.txt
```

Absolute path before command: /Users/parthshinde/

Explanation: This command outputs the name of the file if it exists. If not, an error will indicate that the file does not exist.

3. cat Command

No arguments: Without arguments, `cat` waits for input from the user typing.

```
Last login: Tue Apr  9 17:24:52 on ttys002  
[parthshinde@Parths-MacBook-Air-3 ~ % cat
```

Absolute path before command: /Users/parthshinde/

Explanation: `cat` without arguments expects input from the user. It's not an error but waiting for input.

Directory arguments: Trying to `cat` a directory will result in an error.

```
[parthshinde@Parths-MacBook-Air-3 ~ % cat Developer  
cat: Developer: Is a directory
```

Absolute path before command: /Users/parthshinde/

Explanation: You can't use `cat` on a directory, so this will result in an error message.

File arguments: Displays the contents of the specified file.

```
[parthshinde@Parths-MacBook-Air-3 ~ % cat Desktop/example.txt  
Hello World!%]
```

Absolute path before command: /Users/parthshinde/

Explanation: This command displays the content of `example.txt` if the file exists. If the file doesn't exist, it results in an error.