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1.1. Using Relative Path **cd ../../..** : the command **cd** stands for change directory **../** is relative path that refers to the parent directory .

from P3 to the Login (olive) ,we need to go up 3 levels .

```
Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux/home/olive/practice/P1/Hi/P3 (26033_niyomufasha_olive_assignment1)
$ cd ../../../../..
```

1.2 Using Absolute Path **cd /home/olive** : This command takes you directly to the olive directory from any location in file system

```
Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux (26033_niyomufasha_olive_assignment1)
$ cd /home/olive

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux/home/olive (26033_niyomufasha_olive_assignment1)
$ |
```

2.1 Using Relative path **ls -l ../P1/Hi/Hello/P3/Here** : The **ls** command is used to list directory contents. The **-l** flag provides a "long listing" format, which includes details like permissions, owner, and file size. Starting from the Command directory, **../** moves up one level to Practice. The rest of the path, **P1/Hi/Hello/P3/Here**, is the relative path from there to the Here directory.

```

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux (26033_niyomufasha_olive_assignment1)
$ cd home/olive

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux/home/olive (26033_niyomufasha_olive_assignment1)
$ ls
practice/

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux/home/olive (26033_niyomufasha_olive_assignment1)
$ cd practice

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux/home/olive/practice (26033_niyomufasha_olive_assignment1)
$ ls
P1/ command/ else/

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux/home/olive/practice (26033_niyomufasha_olive_assignment1)
$ cd command

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux/home/olive/practice/command (26033_niyomufasha_olive_assignment1)
$ ls -l ../P1/Hi/P3/Here
total 0

```

- 2.2 Using Absolute Path `ls -l /home/mcbishop/Practice/P1/Hi/Hello/P3/Here` :** This command uses the full, absolute path from the root directory to list the contents of the Here directory. This command will work regardless of your current working directory.

```

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux (26033_niyomufasha_olive_assignment1)
$ ls -l /home/olive/practice/P1/Hi/P3/Here
total 0

Olive@DESKTOP-OIJ3P8N MINGW64 ~/Introduction_to_linux (26033_niyomufasha_olive_assignment1)
$ |

```

- 3.1 Using Absolute Path if you are in the P2 directory: `cp -r ../P1/Hi/Hello/P3 ../Command`**

```

Olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/P1/P2 (26033_niyomufasha_olive_assignment1)
$ cp -r ../Hi/P3 ../../command

Olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/P1/P2 (26033_niyomufasha_olive_assignment1)
$ |

```

- 3.2 Using Relative Path if you are in P3 directory : `cp -r ../../../Command`**

```

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/P1 (26033_niyomufasha_olive_assignment1)
$ LS
Hi P2

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/P1 (26033_niyomufasha_olive_assignment1)
$ cd Hi

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/P1/Hi (26033_niyomufasha_olive_assignment1)
$ cd P3

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/P1/Hi/P3 (26033_niyomufasha_olive_assignment1)
$ cp -r . ../../command

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/P1/Hi/P3 (26033_niyomufasha_olive_assignment1)
$ |

```

### 3.3 Using Relative Path if you are in Command directory: cp -r ../P1/Hi/Hello/P3

```

.
Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/P1/Hi/P3 (26033_niyomufasha_olive_assignment1)
$ cd ../../../../command

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/command (26033_niyomufasha_olive_assignment1)
$ cp -r ../P1/Hi/P3 .

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/pr
actice/command (26033_niyomufasha_olive_assignment1)
$ |

```

### 3.4 Using an absolute path : cp -r /home/olive/practice/P1/Hi/Hello/P3 /home/olive/practice/command

```

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux (26033_niyomu
fasha_olive_assignment1)
$ cp -r home/olive/practice/P1/Hi/P3 home/olive/practice/command

Olive@DESKTOP-0IJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux (26033_niyomu
fasha_olive_assignment1)
$ |

```

Explanations: The cp command is used to copy files and directories. The -r flag stands for "recursive" and is required to copy a directory and all its contents.

4.1 Using a relative path if you are in the P2 directory: **cp ../P1/Hi/Hello/P3/\* ../Command/**

```
olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/P1/P2 (26033_niyomufasha_olive_assignment1)
$ cp -r ../Hi/P3/* ../../command

olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/P1/P2 (26033_niyomufasha_olive_assignment1)
$ |
```

4.2 Using a relative path if you are in the P3 directory: **cp \* ../../command/**

```
olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/P1/Hi/P3 (26033_niyomufasha_olive_assignment1)
$ cp -r * ../../command

olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/P1/Hi/P3 (26033_niyomufasha_olive_assignment1)
$ |
```

4.3 Using a relative path if you are in the Command directory: **cp ../P1/Hi/Hello/P3/\* .**

```
olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/command (26033_niyomufasha_olive_assignment1)
$ cp -r ../P1/Hi/P3/* .

olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux/home/olive/practice/command (26033_niyomufasha_olive_assignment1)
$ |
```

4.4 Using an absolute path: **cp /home/olive/practice/P1/Hi/Hello/P3/\* /home/olive/practice/command/**

```
olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux (26033_niyomufasha_olive_assignment1)
$ cp -r home/olive/practice/P1/Hi/P3/* home/olive/practice/command

olive@DESKTOP-OIJ3P8N MINGW64 /c/Users/olive/Introduction_to_linux (26033_niyomufasha_olive_assignment1)
$ |
```

Explanation: This command uses cp to copy only the contents of the P3 directory.

The asterisk (\*) is a wildcard that matches all files inside the source directory. The / at the end of the destination path ensures that the files are copied into the Command directory itself, not as a sub-directory.

5. Question 3 copies the entire P3 directory itself into the Command directory. This results in a new sub-directory named P3 inside the Command directory (Command/P3). While Question 4 copies only the contents (files) that are inside the P3 directory directly into the Command directory. The P3 directory itself is not copied.

6. Blue color Represent Directory While Yellow Represent Files and HereWeAre Represent File in directory