

A. MANAGING DIRECTORIES

1. Change the current directory to C:\Users\<user>

get-location

set-location \$HOME

set-location c:\users\rblaper

```
PS C:\Windows\system32> get-location
Path
----
C:\Windows\system32

PS C:\Windows\system32> set-location $home
PS C:\Users\rblaper>
```

2. Create a directory called **systems** into your home directory

New-item systems -itemtype directory

New-item systems -type directory

```
PS C:\users\rblaper> new-item systems -itemtype directory

Directory: C:\users\rblaper

Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:03             systems

PS C:\users\rblaper>
```

3. Create a directory called **exercises** into your home directory. Go to this directory and create another new directory called **programming**

new-item -path exercises\programming -itemtype directory

```
PS C:\users\rblaper> new-item exercises\programming -itemtype directory

Directory: C:\users\rblaper\exercises

Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:04             programming

PS C:\users\rblaper>
```

```
PS C:\users\rblaper> get-childitem .\exercises\

Directory: C:\users\rblaper\exercises

Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021    17:06         programming

PS C:\users\rblaper>
```

- Go back to the user's home directory. Delete the directories "exercises" and "programming" using just one command. Create the directories again with one command.

set-location ..

```
PS C:\users\rblaper> remove-item .\exercises\

Confirm
The item at C:\users\rblaper\exercises\ has children and the Recurse parameter was
not specified. If you continue, all children will be removed with the item. Are you
sure you want to continue?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"):n
PS C:\users\rblaper> remove-item -r .\exercises\
PS C:\users\rblaper> remove-childitem .\exercises\
remove-childitem : The term 'remove-childitem' is not recognized as the name of a
cmdlet, function, script file, or operable program. Check the spelling of the
name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ remove-childitem .\exercises\
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (remove-childitem:String) [], Comman
dNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\users\rblaper> get-childitem .\exercises\
get-childitem : Cannot find path 'C:\users\rblaper\exercises\' because it does not
exist.
At line:1 char:1
+ get-childitem .\exercises\
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\users\rblaper\exercises\:String)
[Get-ChildItem], ItemNotFoundException
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetChildI
temCommand

PS C:\users\rblaper>
```

```
PS C:\users\rblaper> new-item exercises\programming -itemtype directory

Directory: C:\users\rblaper\exercises

Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021    17:13         programming

PS C:\users\rblaper>
```

5. Create the empty files called student.txt, student1.txt, student2.txt, list, luggage and last in the directory named "systems"

```
set-location systems
```

```
new-item students1,students2
```

```
PS C:\users\rblaper> new-item .\systems\students1.txt

Directory: C:\users\rblaper\systems

Mode                LastWriteTime         Length Name
----                -
-a-----         24/02/2021   17:31             0 students1.txt

PS C:\users\rblaper> new-item .\systems\students2.txt

Directory: C:\users\rblaper\systems

Mode                LastWriteTime         Length Name
----                -
-a-----         24/02/2021   17:31             0 students2.txt

PS C:\users\rblaper> new-item .\systems\list

Directory: C:\users\rblaper\systems

Mode                LastWriteTime         Length Name
----                -
-a-----         24/02/2021   17:31             0 list

PS C:\users\rblaper> new-item .\systems\luggage

Directory: C:\users\rblaper\systems

Mode                LastWriteTime         Length Name
----                -
-a-----         24/02/2021   17:31             0 luggage

PS C:\users\rblaper> new-item .\systems\last

Directory: C:\users\rblaper\systems

Mode                LastWriteTime         Length Name
----                -
```

6. Print all the files that begin with "l" in the directory "systems"

```
get-childitem l* -file
```

```
get-childitem l* -directory
```

```
get-childitem -path * -include l* -file
```

```
get-childitem * -include l*
```

```
PS C:\users\rblaper> get-childitem .\systems\l*

Directory: C:\users\rblaper\systems

Mode                LastWriteTime         Length Name
----                -
-a-----         24/02/2021   17:32             0 last
-a-----         24/02/2021   17:31             0 list
-a-----         24/02/2021   17:31             0 luggage

PS C:\users\rblaper>
```

7. Print all the files that end with "txt" in the directory "systems". Display the output as a list only showing the properties name and mode

```
get-childitem -path * -include *txt -file | format-list -Property name,mode
get-childitem *txt -file | format-list -Property name,mode
get-childitem *txt -file | select-object -Property name,mode
get-childitem *txt -file | get-member
```

```
PS C:\users\rblaper> get-childitem .\systems\*txt | select name
Name
----
students1.txt
students2.txt

PS C:\users\rblaper> get-childitem .\systems\*txt | select name,mode
Name           Mode
-----
students1.txt  -a----
students2.txt  -a----
```

8. Create a new directory into your home directory called "config" using an absolute path

```
new-item -path C:\users\rblaper\config -itemtype directory
new-item $HOME\config
remove-item $HOME\config
```

tree /f exercises

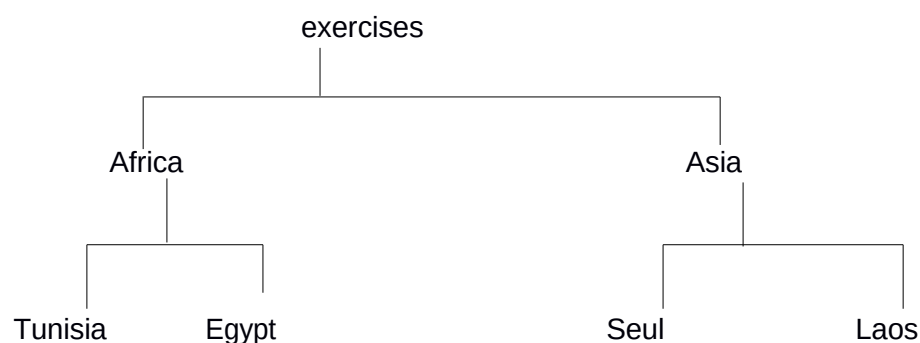
```
PS C:\users\rblaper> new-item -path C:\users\rblaper\config -itemtype directory
Directory: C:\users\rblaper

Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:41         config

PS C:\users\rblaper>
```

B. COPY, RENAME AND EDIT FILES

Create the following directory structure in C:\Users\<user>\exercises



set-location

```
new-item -itemtype directory Africa\tunisia, directory Africa\tunisia
```

```
new-item -itemtype directory Africa\tunisia
```

```

Directory: C:\users\rblaper\exercises\Asia
Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:46         Laos

PS C:\users\rblaper\exercises> get-childitem .

Directory: C:\users\rblaper\exercises
Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:45         Africa
d-----          24/02/2021   17:46         Asia
d-----          24/02/2021   17:13         programming

PS C:\users\rblaper\exercises> get-childitem -r .

Directory: C:\users\rblaper\exercises
Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:45         Africa
d-----          24/02/2021   17:46         Asia
d-----          24/02/2021   17:13         programming

Directory: C:\users\rblaper\exercises\Africa
Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:45         Egypt
d-----          24/02/2021   17:45         Tunisia

Directory: C:\users\rblaper\exercises\Asia
Mode                LastWriteTime         Length Name
----                -
d-----          24/02/2021   17:46         Laos
d-----          24/02/2021   17:46         Seul

```

9. Create the following empty files using the command line
song.doc in the directory **Egypt**
tv.doc in the directory **Seul**
marks in the directory **Tunisia**

```

PS C:\users\rblaper\exercises> tree /f .
Folder PATH listing
Volume serial number is 48000048 66FF:0445
C:\USERS\RBLAPER\EXERCISES
├── Africa
│   ├── Egypt
│   │   └── song.doc
│   └── Tunisia
│       └── marks
├── Asia
│   ├── Laos
│   └── Seul
│       └── tv.doc
└── programming

```

10. Copy all the files in C:\Windows which begin with “a” into “Africa”

Only copy the container but not the content

```

copy-item -path c:\windows\s* -destination "Africa" -container: $false
get-childitem c:\windows\s* -file | copy-item -destination "Africa" # copy only files
get-childitem c:\windows\s* -directory | copy-item -destination "Africa" # copy only directories

```

```

get-childitem -recursive
tree
tree #folders
tree /f # show folders and files

```

```
new-item -itemtype directory /one/one, /two/two
```

```
removw-item -recursive -force /one #remove all the tree
```

```

PS C:\users\rblaper\exercises> cp C:\Windows\* C:\users\rblaper\exercises\Africa
PS C:\users\rblaper\exercises> child-item .\Africa\
child-item : The term 'child-item' is not recognized as the name of a cmdlet,
function, script file, or operable program. Check the spelling of the name, or if
a path was included, verify that the path is correct and try again.
At line:1 char:1
+ child-item .\Africa\
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (child-item:String) [], CommandNotFo
undException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\users\rblaper\exercises> child-item
child-item : The term 'child-item' is not recognized as the name of a cmdlet,
function, script file, or operable program. Check the spelling of the name, or if
a path was included, verify that the path is correct and try again.
At line:1 char:1
+ child-item
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (child-item:String) [], CommandNotFo
undException
+ FullyQualifiedErrorId : CommandNotFoundException

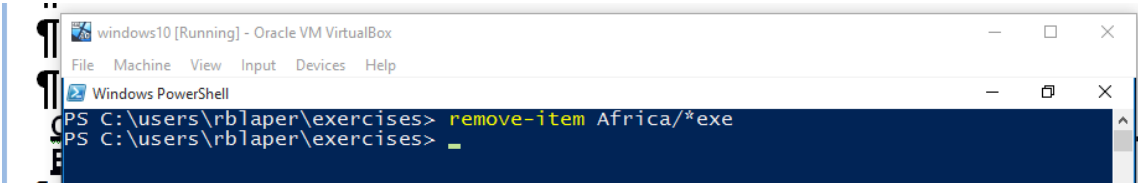
PS C:\users\rblaper\exercises> get-childitem .\Africa\

    Directory: C:\users\rblaper\exercises\Africa

Mode                LastWriteTime         Length Name
----                -
d-----         24/02/2021        18:06      addins
d-----         24/02/2021        18:06    AppCompat
d-----         24/02/2021        18:06    apppatch
d-----         24/02/2021        18:06    AppReadiness
d-----         24/02/2021        18:06    assembly
d-----         24/02/2021        17:48      Egypt
d-----         24/02/2021        18:00    Tunisia

```

11. Delete all the files in “Africa” which end with “exe”



```

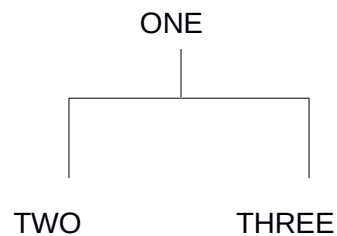
PS C:\users\rblaper\exercises> remove-item Africa/*.exe
PS C:\users\rblaper\exercises>

```

CHANGE THE CURRENT DIRECTORY TO AFRICA AND DO THE FOLLOWING EXERCISES USING RELATIVE PATHS

12. Copy the file “song.doc” into “Laos”
13. Copy the file “tv.doc” into “Egypt” with the name “radio.txt”
14. Rename the file “marks” to “exam.wri” (it is located in the directory named Tunisia)
15. Copy the file “song.doc” (located in “Egypt”) inside “Tunisia”
16. Print the content of the current directory and subdirectories

17. Rename the file "song.doc" (located in "Laos") to "aa.doc"
18. Create the directory "Others" in "Laos"
19. Rename the directory named "programming" (which you created in the first exercises) to pro-c.
20. Create the following directory tree in "exercises" (using as few commands as possible)



21. Copy the files with txt extension from the directory named "systems" to "exercises".
22. Move the files you copied in the exercise above to the directory THREE.
23. Delete the directory named THREE, including all the files and, if so, subdirectories

CHANGE TO SYSTEMS AND DO THE FOLLOWING EXERCISES USING ABSOLUTE PATHS

24. Copy the files that end with "txt" of the directory named "systems" to "Tunisia"
25. Copy the file "tv.doc" (located in "Seul") to the directory named "exercises"
26. Rename the file student1.txt (located in "Tunisia") to tuition.txt
27. Rename "Africa" (located in "exercises") to "Afri"

NOW YOU CAN BE PLACED IN THE DIRECTORY YOU WANT

28. Move the file "song.doc", which is located in Egypt, to "Laos" with the name "bb.doc"
29. Copy the files whose name contains the letter "u" from "systems" to "exercises"
30. Print the content of the C:\Windows, including subdirectories, formatted as a list and only displaying the name and "Last Write Time"
31. How can you print the name of the current directory?
32. Copy the folder "Afri" including files and subdirectories to "Asia"
33. Move the folder Laos including files and subdirectories to "Seul" and rename it to "Seul2"