

Activity I: Create a List of Directories of your Computer

Generate a list of all one-level and two-level directories in your computer.

All of the directories are under `/`.

Here, we refer to:

`/Directory-Name1`

as a one-level directory. For example, `/home` is a one-level directory.

We refer to:

`/Directory-Name1/Directory-Name2`

as a two-level directory. For example, `/home/pi` is a two-level directory.

For example, your list will contain:

`/home`

`/home/pi`

References

??? Add how to open the command prompt.

To determine whether we have a file or a directory, you can use the `ls -al` command.

```
pi@raspberrypi:~/Documents $ ls -al
total 28
drwxr-xr-x  7 pi pi 4096 Dec 20 12:29 .
drwxr-xr-x 23 pi pi 4096 Dec 20 12:29 ..
drwxr-xr-x  3 pi pi 4096 Dec 20 12:29 AOLME
drwxr-xr-x 11 pi pi 4096 May 27 2016 BlueJ Projects
drwxr-xr-x  5 pi pi 4096 May 27 2016 Greenfoot Projects
drwxr-xr-x  2 pi pi 4096 May 27 2016 Scratch Projects
drwxr-xr-x  2 pi pi 4096 Dec 15 10:00 Wolfram Mathematica
```

Look at the first letter for each file:

 If it is a “d”, then it is a directory.

 If it is a “-”, then it is a file.

In the example above, they are all directories.

The name of the file or directory appears at the end.

We have some special directory names:

 / refers to the root directory.

 . refers to the current directory.

 .. refers to the previous directory.

Table I. Reference commands.

Command	Description	Examples
<code>pwd</code>	Print Working Directory. Prints the current directory name.	<code>>pwd</code> /home/pi
<code>ls</code>	Lists the files and directories in the current directory.	<code>>ls</code> pi readme.txt
<code>ls -al</code>	Prints detailed information for each local file and directory. See detailed example.	<code>>ls</code> drwx ... pi -drwx ... readme.txt
<code>cd name</code>	Change Directory to name. / refers to the root directory. . refers to the current directory. .. refers to the previous directory.	To make “/” the current directory: <code>>cd /</code> <code>>pwd</code> / To go back one: <code>>pwd</code> /home/pi <code>>cd ..</code> <code>>pwd</code>

/home

Activity II: Make and Remove Directories

Create the following directories on your computer:

/home/pi/mario1

/home/pi/mario2

/home/pi/mario3

After you create the directories, remove them from your computer.

Command	Description	Examples
mkdir name	Make directory name.	>mkdir mario >cd mario >pwd /home/pi/mario
rmdir name	Removes directory by given name.	>mkdir mario2 >ls -al drwx .. mario2 >rmdir mario2 >ls -al .. will not show mario2