

ELEC 377 Lab 1: Testing Document

Name & Student ID: Shiyan Boxer (20106887) and Arsh Kochhar (20104779)

Date: Sept 28th, 2020

The testSplitCommand.txt file displays our interaction with the shell. The following describes the input and output recorded in the script files and wh the script fils shows that the program runs correctly. The program was tested by entering the commands in the default shell and our program. This resulted in identical output as expected since our program implements these built-in functions.

sliptCommandLine

The sliptCommandLine takes in a string and outputs each individual word. The following edge cases were tested:

- Leading spaces
- Trailing spaces
- Spaces between words

Testing Screenshot

```
%> hi there
3
0: ld-linux-x86-64.so.2
1:
2:
%> no
1
0: ld-linux-x86-64.so.2
%> no
2
0: ld-linux-x86-64.so.2
1:
%> no
1
0: ld-linux-x86-64.so.2
%>
```

doCommand

Test1.txt

Creating the test file.

```
shiyaboxer@~/projects/helloworld$ script test1.txt
Script started, file is test1.txt
```

Default Shell	Our Program
<p>Input: pwd</p> <p>Output: Prints the current directory</p> <pre>PS C:\Users\shiya\documents> pwd Path ---- C:\Users\shiya\documents PS C:\Users\shiya\documents></pre>	<p>Input: pwd</p> <p>Output: Prints the current directory</p> <pre>shiyaboxer@Shiyaboxer:~/projects/helloworld\$ pwd /home/shiyaboxer/projects/helloworld</pre> <p>Input: ls</p> <p>Output: List the contents of the current directory, one per line. By default, hidden files whose name start with a dot ('.') are not</p>

Input: ls

Output: List the contents of the current directory, one per line. By default, hidden files whose name start with a dot ('.') are not listed. If the parameter "-a" is given, all files will be listed

```
PS C:\Users\shiya> cd documents
PS C:\Users\shiya\documents> ls

Directory: C:\Users\shiya\documents

Mode                LastWriteTime         Length Name
----                -
d-----          2020-03-28  4:57 PM             Ableton
d-----          2020-01-22  2:10 PM             Adobe
d-----          2020-09-02  5:18 PM             Bike
d-r-----        2020-09-20  3:16 PM             CPME 320
d-r-----        2020-07-17  11:47 AM             Custom Office Templates
d-r-----        2020-08-06  3:37 PM             Dev
d-r-----        2020-09-20  3:46 PM             ELEC 377
d-----          2020-09-20  3:16 PM             Gamification Graphics
d-----          2020-04-11  2:24 PM             Important Docs
d-----          2020-09-20  3:15 PM             Max 8
d-r-----        2020-09-12  1:06 PM             Music
d-r-----        2020-07-25  10:05 AM             My Tableau Repository
d-r-----        2020-04-22  12:31 PM             Notes
d-----          2020-08-19  10:27 AM             Portfolio
d-r-----        2020-09-12  1:06 PM             Textbooks
d-----          2020-08-06  3:37 PM             Zoom
-a-----          2020-09-20  2:36 PM             6936 ai-data.csv
-a-----          2020-09-25  11:58 AM             7094895 D02 - Lumos.pdf
-a-----          2020-09-09  4:25 PM             168225 Dean Scholar.pdf
-a-----          2020-09-25  11:59 AM             80631 Investment Memo - Lumos.pdf
-a-----          2020-09-26  3:26 PM             37071 Shiyen_Boxen_Cover_Letter_2020.pdf
-a-----          2020-09-23  8:13 PM             92844 Shiyen_Boxen_Resume_2020.pdf
-a-----          2020-09-20  3:07 PM             6135 Unofficial Transcript - Shiyen_Boxen.pdf
-a-----          2020-09-20  3:05 PM             46325 Verification of Enrolment - Shiyen_Boxen.pdf
-a-----          2020-04-26  4:07 PM             1646080 yarn-1.22.4.msi
```

Input: cd

Output: Change the current directory to the one given by the parameter. If the directory doesn't exist, give an error. If there are no parameters, change the current directory to the users home director

```
PS C:\Users\shiya> cd documents
PS C:\Users\shiya\documents>
```

Input: exit

Output: Exit the shell with an exit code of 0.

```
PS C:\Users\shiya\documents> exit
```

listed. If the parameter "-a" is given, all files will be listed

```
shiyenboxer@ShiyenBoxer:~/projects/helloworld$ ls
shell  shell.cpp  test1.txt
```

Input: cd

Output: Change the current directory to the one given by the parameter. If the directory doesn't exist, give an error. If there are no parameters, change the current directory to the users home director

```
shiyenboxer@ShiyenBoxer:~/projects/helloworld$ cd documents
bash: cd: documents: No such file or directory
shiyenboxer@ShiyenBoxer:~/projects/helloworld$ cd ..
shiyenboxer@ShiyenBoxer:~/projects$ cd helloworld
```

Input: exitFunction

Output: Exit the shell with an exit code of 0.

```
shiyenboxer@ShiyenBoxer:/home$ exit
exit
Script done, file is test1.txt
```