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COP4640 Introduction to OS

Project 2

2/17/17

[redacted n number and ip address of ifconfig for privacy]

[n@osprey cop4640]$ pwd

/home/60/n/cop4640

[n@osprey cop4640]$ cat wcl.bash

#!/bin/bash

exitNow=true

printf "%0.s\*" {1..50}

echo ""

echo "\* Welcome to the Windows Command Line Simulator! \*"

echo "\* Enter your commands below \*"

printf "%0.s\*" {1..50}

echo ""

while [ exitNow ]

do

read -p "wcl> " command1 command2 command3

case $command1 in

"dir")

echo "using Bash command: ls $command2"

ls -l $command2

echo "done";;

"copy")

if [[ "$command2" == "" || "$command3" == "" ]]

then echo "usage: copy sourcefile destinationfile"

else

echo "using Bash command: cp $command2 $command3"

cp $command2 $command3

echo "done"

fi;;

"del")

if [ -z "$command2" ]

then

echo "usage: del sourcefile"

else

echo "using Bash command: rm $command2"

rm $command2

echo "done"

fi;;

"move")

if [[ "$command2" == "" || "$command3" == "" ]]

then echo "usage: move sourcefile destination"

else

echo "using Bash command: mv $command2 $command3"

mv $command2 $command3

echo "done"

fi;;

"rename")

if [[ "$command2" == "" || "$command3" == "" ]]

then echo "usage: rename sourcefile newfilename"

else

echo "using Bash command: mv $command2 $command3"

mv $command2 $command3

echo "done"

fi;;

"ipconfig")

echo "using Bash command: ifconfig"

ifconfig

echo "done";;

"help")

format=" %10s %-30s %-20s\n"

printf "$format" "dir:" "list directory contents:" "dir [FILE]..."

printf "$format" "copy:" "copy files and directories:" "copy SOURCE... DIRECTORY"

printf "$format" "del:" "remove files or directories:" "del FILE... "

printf "$format" "move:" "move files:" "move SOURCE... DIRECTORY"

printf "$format" "rename:" "rename files:" "rename SOURCE... DIRECTORY"

printf "$format" "ipconfig:" "configure a network interface:" "ipconfig"

printf "$format" "exit:" "ends application:" "exit";;

"exit")

exitNow=false

echo "Exiting program"

exit 0;;

\*)

echo "ERROR: Unrecognized command "

esac

done

[n@osprey cop4640]$ ./wcl.bash

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\* Welcome to the Windows Command Line Simulator! \*

\* Enter your commands below \*

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wcl> dir

using Bash command: ls

total 32

-rw-r--r--. 1 n student 1663 Jan 24 08:31 passmark.txt

-rwxr-xr-x. 1 n student 88 Jan 25 10:57 script

-rwxr-xr-x. 1 n student 473 Jan 27 16:58 script3.sh

-rwxr-xr-x. 1 n student 210 Jan 25 12:54 script4.sh

-rwxr-xr-x. 1 n student 260 Jan 27 16:59 script5.sh

-rwxr-xr-x. 1 n student 260 Jan 26 16:21 script6.sh

-rwxr-xr-x. 1 n student 1010 Jan 25 12:39 script.sh

-rwxr-xr-x. 1 n student 1865 Feb 16 13:46 wcl.bash

done

wcl> dir ../

using Bash command: ls ../

total 8

drwxr-xr-x. 2 n student 4096 Feb 17 16:28 cop4640

drwxr-xr-x. 2 n student 4096 Jan 31 16:48 homepage

-rw-r--r--. 1 n student 0 Feb 17 16:33 test

-rw-r--r--. 1 n student 0 Feb 17 16:33 test1

done

wcl> copy script ../script

using Bash command: cp script ../script

done

wcl> copy aa

usage: copy sourcefile destinationfile

wcl> del ../test

using Bash command: rm ../test

done

wcl> del

usage: del sourcefile

wcl> move ../test1 .

using Bash command: mv ../test1 .

done

wcl> move

usage: move sourcefile destination

wcl> rename ./test1 test

using Bash command: mv ./test1 test

done

wcl> rename

usage: rename sourcefile newfilename

wcl> ipconfig

using Bash command: ifconfig

[redacted]

Done

wcl> hjskdjkd

ERROR: Unrecognized command

wcl> help

dir: list directory contents: dir [FILE]...

copy: copy files and directories: copy SOURCE... DIRECTORY

del: remove files or directories: del FILE...

move: move files: move SOURCE... DIRECTORY

rename: rename files: rename SOURCE... DIRECTORY

ipconfig: configure a network interface: ipconfig

exit: ends application: exit

wcl> exit

Exiting program

[n@osprey cop4640]$