mv

#!/bin/bash

if [ $# -lt 2 ]; then

echo "Too few arguments given; at least 2 arguments are needed."

exit 1

fi

lastArg="${@:$#}"

i=1

for param in "$@"; do

if [ ! -e "$param" -a $i -lt $# ]; then

echo "Error: $param does not exist."

exit 1

elif [ "$param" = "$lastArg" -a $i -lt $# ]; then

echo "Error: $param is the same file/directory as the destination."

exit 1

fi

((i++))

done

if [ $# -eq 2 ]; then # special case for 2 arguments to make output look better

if [ -d "$1" ]; then

if [ -d "$2" ]; then

echo "Moves directory $1 (and anything inside it) into directory $2"

exit 0

elif [ ! -e "$2" ]; then

echo "Renames directory $1 to $2"

exit 0

else

echo "Error: $2 is not a directory; mv cannot overwrite a non-directory with a directory."

exit 1

fi

else

if [ -d "$2" ]; then

echo "Moves file $1 into directory $2"

elif [ -e "$2" ]; then

echo "Renames file $1 to $2, replacing file $2"

else

echo "Renames file $1 to $2"

fi

exit 0

fi

elif [ ! -e "$lastArg" ]; then

echo "Error: $lastArg does not exist."

exit 1

elif [ ! -d "$lastArg" ]; then

echo "Error: $lastArg is not a directory; mv cannot merge multiple files into one."

exit 1

fi

argsLeft=$#

echo "Moves..."

for param in "$@"; do

if [ $argsLeft -eq 1 ]; then

echo "...Into the directory $param" # has to be a directory because -f $lastArg was dealt with earlier

exit 0

fi

if [ -d "$param" ]; then

if [ ! -d "$lastArg" ]; then

echo "Error: $lastArg is not a directory; mv cannot overwrite a non-directory with a directory."

exit 1

fi

if [ $argsLeft -eq $# ]; then

echo "The directory ${param} (and anything inside it)..."

else

echo "And the directory ${param} (and anything inside it)..."

fi

else

if [ $argsLeft -eq $# ]; then

echo "The file ${param}..."

else

echo "And the file ${param}..."

fi

fi

((argsLeft--))

done

example:

$ ls

dir1 dir2 file1 file2 file3 mvsim

$ ./mvsim file1 file2

Renames file file1 to file2, replacing file file2

$ ./mvsim file1 newfile

Renames file file1 to newfile

$ ./mvsim file1 dir1

Moves file file1 into the directory dir1

$ ./mvsim file1 file2 file3 dir1

Moves...

The file file1...

And the file file2...

And the file file3...

...Into the directory dir1

$ ./mvsim file1 file2 dir1 dir2

Moves...

The file file1...

And the file file2...

And the directory dir1 (and anything inside it)...

...Into the directory dir2

$ ./mvsim file1 file2 file3 # error - file3 isn't a directory

Error: file3 is not a directory; mv cannot merge multiple files into one.

$ ./mvsim -f -i file1 dir1 # options aren't parsed or filtered out

Error: -f does not exist

#!/bin/bash

from=$1 to=$2

echo "Copy from $1 to $2"

cp $1 $2

echo "Removing the old file $1"

rm $1

echo "Done."