#Remove script

#! /bin/bash

recycle=~/deleted

if [ ! -d ~/deleted ]

then

mkdir ~/deleted

chmod 777 ~/deleted

fi

while getopts :ivr opt

do

case $opt in

i) i=1;;

v) v=1;;

r) r=1;;

\?) echo "$0: invalid option -- 'OPTARG'"

exit 1 ;;

esac

done

shift $((OPTIND - 1))

# check directionary/exist

if [ $# -eq 0 ]

then

echo "No filename provided"

exit 1

fi

for deletefile in $\*

do

if [ ! -e $deletefile ]

then

echo "File does not exit"

exit 1

elif [ -d $deletefile ] && [[ $r -ne 1 ]]

then

echo "Directory name provided"

exit 1

fi

# check whether it is basename ot not

if [ $(basename $deletefile) = 'remove' ]

then

echo "Attempting to delete remove - operation aborted"

exit 1

fi

done

# with option

if [[ $r -ne 1 ]]

then

for deletefile in $\*

do

if [[ $i -eq 1 ]]

then

echo "rm: remove regular file '$deletefile'?"

read reply

if [ $reply != 'y' ] && [ $reply != 'Y' ] && [ $reply != 'yes' ]

then

continue

fi

fi

if [[ $v -eq 1 ]]

then

echo "Removed '$deletefile'"

fi

# move to delete folder

Inode=$(ls -i $deletefile | cut -d " " -f1)

oldname=$(basename $deletefile)

newname=$oldname'\_'$Inode

mv $deletefile $recycle'/'$newname

# make note of info

if [ ! -f ~/.restore.info ]

then

touch ~/.restore.info

chmod 700 ~/.restore.info

fi

echo $newname':'$(readlink -f $deletefile) >> ~/.restore.info

done

fi

#Phase4 remove files recursively

if [[ $r -eq 1 ]]

then

for deletefile in $\*

do

allfile=$(find $deletefile -type f -printf "%T@ %p\n" | sort -nr | cut -d\ -f2-)

for file in $allfile

do

Inode=$(ls -i $file | cut -d " " -f1)

oldname=$(basename $file)

newname=$oldname'\_'$Inode

echo $recycle'/'$newname

mv $file $recycle'/'$newname

# make note of info

if [ ! -f ~/.restore.info ]

then

touch ~/.restore.info

chmod 700 ~/.restore.info

fi

echo $newname':'$(readlink -f $file) >> ~/.restore.info

done

find $deletefile -type d -empty -delete

done

fi

#restore script

#! /bin/bash

restorename=$( basename $1 )

name=~/deleted/$restorename

if [ ! -e $name ]

then

echo "File does not exist"

exit 1

elif [ $# -eq 0 ]

then

echo "No filename provided"

exit 1

fi

for file in $(cat ~/.restore.info)

do

if [[ $( echo $file | cut -d':' -f1 ) = $restorename ]]

then

original\_name=$( echo $file | cut -d':' -f2 )

break

fi

done

#Phase5 restore the files

path=$(dirname $original\_name)

if [ ! -d $path ]

then

mkdir -p $path

fi

if [ -f $original\_name ]

then

echo 'Do you want to overwrite? y/n'

read reply

if [ $reply = 'y' ] || [ $reply = 'Y' ] || [ $reply = 'yes' ]

then

mv $name $original\_name

sed -i '/'$restorename'/d' ~/.restore.info

fi

else

mv $name $original\_name

sed -i '/'$restorename'/d' ~/.restore.info

fi