#!/bin/csh

#AUTHOR: Daniel Frey

#CLASS: CS2080.001

#TITLE: Backup

#DATE DUE: 4/9/18

#DESCRIPTION: This script takes in a file and a directory only. It will check that both arguments exist and can be accessed with the correct permissions. The file will contain the files to be backed-up. The directory will be where the files are backed-up to. It will then go through each file listed in the file list, check that the file can be read, and then copy it to the given directory with the same name and .bak.

#

#EXIT VALUES

# 0 if successfully completed

# 10 incorrect number of arguments

# 20 file does not exist/cannot read

# 30 directory does not exist/cannot write

#VALIDATIONS

#set the number of arguments into variable

set numargs = $#argv

#if the number of arguments is not exactly 2, then exit

if ( $numargs != 2 ) then

echo Incorrect number of arguments.

exit 10

endif

#set file name into variable

set backupList = $argv[1]

#set directory name into variable

set directory = $argv[2]

#check that the backup file exists/readable

if ( ! ( -r $backupList ) ) then

echo The file $backupList does not exist or cannot be read.

exit 20

endif

#check if directory exists/writable

if ( ! ( -dw $directory ) ) then

echo The directory $directory does not exist or cannot be written to.

exit 30

endif

#BODY

#for each file to be backed-up in the file given

foreach file ( `cat $backupList` )

#check if the file to be backed-up exists/readable

if ( ! ( -r $file ) ) then

echo The file $file does not exist or cannot be read.

else

#copy the file to be backed-up to the directory with same name .bak

cp $file $directory/$file.bak

#confirm to screen that the file has been backed-up

echo The file $file has been copied to $directory/$file.bak.

end

exit 0