**Assignment 5:** Modify the script to handle errors, such as the directory already existing or lacking permissions to create files.  
Add a debugging mode that prints additional information when enabled.

debug () {

> if [ $Debug -eq 1 ]; then

> echo "Debug:$1"

> fi

> }

# create directory named TestDirNew

if mkdir -p TestDirNew 2>/dev/null; then

> debug "Directory'TestDirNew' created or already exists."

> else

> echo "Error: Unable to create directory 'TestDirNew'. Check Permissions."

> exit 1

> fi

Debug:Directory'TestDirNew' created or already exists.

# change directory to TestDirNew

if cd TestDirNew; then

> debug "Changed to directory 'TestDirNew'."

> else

> echo "Error: Unable to change to directory 'TestDirNew'

. Check Permissions."

> exit 1

> fi

Debug:Changed to directory 'TestDirNew'.

# Loop to create 10

files

for i in {1..10}; do

> filename="File$i.txt"

> if echo "$filename" > "$filename" 2>/dev/null; then

> debug "File '$filename' created with content '$filena

me'."

> else

> echo "Error: Unable to change to directory 'TestDirNew'

. Check Permissions."

> exit 1

> fi

> done

> echo "Files created successfully in TestDirNew."

Debug:File 'File1.txt' created with content 'File1.txt'.

Debug:File 'File2.txt' created with content 'File2.txt'.

Debug:File 'File3.txt' created with content 'File3.txt'.

Debug:File 'File4.txt' created with content 'File4.txt'.

Debug:File 'File5.txt' created with content 'File5.txt'.

Debug:File 'File6.txt' created with content 'File6.txt'.

Debug:File 'File7.txt' created with content 'File7.txt'.

Debug:File 'File8.txt' created with content 'File8.txt'.

Debug:File 'File9.txt' created with content 'File9.txt'.

Debug:File 'File10.txt' created with content 'File10.txt'.

Files created successfully in TestDirNew.