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=false
if [ "$DEBUG" = "true" ]; then
  set -x
fi
debug_msg() {
  if [ "$DEBUG" = "true" ]; then
    echo "[DEBUG] $1"
  fi
}
debug_msg "Creating directory TestDir"
if! mkdir-p TestDir; then
  echo "Error: Could not create directory TestDir"
  exit 1
fi
debug_msg "Changing directory to TestDir"
if! cd TestDir; then
  echo "Error: Could not change to directory TestDir"
  exit 1
fi
for i in {1..10}
do
  filename="File$i.txt"
  debug_msg "Creating file $filename with content $filename"
```

if ! echo \$filename > \$filename; then

echo "Error: Could not create file \$filename"

exit 1

fi

done

debug\_msg "Script completed successfully"

```
| Some | Stop |
```