

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.
```