```
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.
ANS:
# Set debugging mode (0 for off, 1 for on)
DEBUG=1
# Function to print debug messages
debug() {
 if [ $DEBUG -eq 1 ]; then
  echo "DEBUG: $1"
 fi
}
# Create a directory named TestDirNew
if mkdir -p TestDirNew 2>/dev/null; then
 debug "Directory 'TestDirNew' created or already exists."
else
 echo "Error: Unable to create directory 'TestDirNew'. Check permissions."
 exit 1
fi
# Change to the TestDirNew directory
if cd TestDirNew; then
 debug "Changed to directory 'TestDirNew'."
else
 echo "Error: Unable to change to directory 'TestDirNew'. Check permissions."
 exit 1
fi
# Loop to create 10 files
for i in {1..10}; do
 filename="File$i.txt"
 if echo "$filename" > "$filename" 2>/dev/null; then
  debug "File '$filename' created with content '$filename'."
  echo "Error: Unable to create file '$filename'. Check permissions."
  exit 1
 fi
```

ScreenShort:

echo "Files created successfully in TestDirNew."

done

```
%/komal2/TestDirOld/komal$ # Set debugging mode (0 for off, 1 for on)
~/komal2/TestDirOld/komal$ DEBUG=1
~/komal2/TestDirOld/komal$
~/komal2/TestDirOld/komal$ # Function to print debug messages
~/komal2/TestDirOld/komal$ debug() {
> if [ $DEBUG -eq 1 ]; then
> echo "DEBUG: $1"
> fi
)}
~/komal2/TestDirOld/komal$ # Create a directory named TestDirNew
~/komal2/TestDirOld/komal$ 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.
~/komal2/TestDirOld/komal$
~/komal2/TestDirOld/komal$ # Change to the TestDirNew directory
~/komal2/TestDirOld/komal$ if cd TestDirNew; then
> debug "Changed to directory 'TestDirNew'."
> echo "Error: Unable to change to directory 'TestDirNew'. Check permissions."
> exit 1
> fi
DEBUG: Changed to directory 'TestDirNew'.
~/komal2/TestDirOld/komal/TestDirNew$
~/komal2/TestDirOld/komal/TestDirNew$ # Loop to create 10 files
DEBUG: Changed to directory 'TestDirNew'.
~/komal2/TestDirOld/komal/TestDirNew$
~/komal2/TestDirOld/komal/TestDirNew$ # Loop to create 10 files
~/komal2/TestDirOld/komal/TestDirNew$ for i in {1..10}; do
> filename="File$i.txt"
 > if echo "$filename" > "$filename" 2>/dev/null; then
     debug "File '$filename' created with content '$filename'."
     echo "Error: Unable to create file '$filename'. Check permissions."
     exit 1
> fi
> done
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'.

~/komal2/TestDirOld/komal/TestDirNew\$ echo "Files created successfully in TestDirNew."

File1.txt File10.txt File2.txt File3.txt File4.txt File5.txt File6.txt File7.txt File8.txt File9.txt

~/komal2/TestDirOld/komal/TestDirNew\$

Files created successfully in TestDirNew. ~/komal2/TestDirOld/komal/TestDirNew\$ ls

~/komal2/TestDirOld/komal/TestDirNew\$

Activate Windows
Go to Settings to activate Windows.