Task 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\_MODE" = true ]; then

echo "DEBUG: $1";

fi

}

handle\_error() {

echo "Error: $1";

exit 1

}

create\_files() {

for ((i=1; i<=10; i++)); do

filename="File$i.txt";

debug "Creating file: $filename";

echo "$filename" > "$filename" || handle\_error "Unable to create $filename";

done

}

main() {

if [ "$DEBUG\_MODE" = true ]; then

echo "Debugging mode enabled.";

fi

if [ ! -d "TestDir1" ]; then

mkdir TestDir1 || handle\_error "Unable to create directory TestDir";

debug "Directory TestDir created"

else

handle\_error "Directory TestDir1 already exists";

fi

cd TestDir1 || handle\_error "Unable to navigate to directory TestDir",

create\_files

echo "Files created successfully in TestDir1.";

}

if [ "$1" = "-d" ]; then

DEBUG\_MODE=true;

fi

main

