Write a program to read and copy the contents of file character by character, line by line.

**#!/bin/bash**

**# Input and output file names**

**read -p "Enter the source file name: " source\_file**

**read -p "Enter the destination file name: " destination\_file**

**# Check if the source file exists**

**if [ ! -f "$source\_file" ]; then**

**echo "Source file does not exist."**

**exit 1**

**fi**

**# Copy contents character by character**

**echo "Copying contents character by character..."**

**while IFS= read -r -n1 char; do**

**echo -n "$char" >> "$destination\_file"**

**done < "$source\_file"**

**# Adding a newline after character copy**

**echo "" >> "$destination\_file"**

**# Copy contents line by line**

**echo "Copying contents line by line..."**

**while IFS= read -r line; do**

**echo "$line" >> "$destination\_file"**

**done < "$source\_file"**

**echo "Contents copied successfully to $destination\_file."**