

## here is the way we test the script

In the test, I created a file (test1.txt) and deleted it using my custom rm script. Instead of being permanently removed, the file was moved to /tmp/trash/ with a timestamped name, and the deletion was recorded in trash.log. Then, I used the restore command to bring the file back to its original location, verifying that the file contents (hello) were successfully recovered. This confirms that the safe rm and restore system works as intended.

```
rith@DESKTOP-796GSE4:~$ echo "hello" > test1.txt
rith@DESKTOP-796GSE4:~$ ls
99-realsense-libusb.rules  dev_ws      grpc_dictionary  librealsense  python  SE      vcpkg
bin                        Documents   ITC              mynode.py     ros2_ws  test1.txt
rith@DESKTOP-796GSE4:~$ rm test1.txt
rith@DESKTOP-796GSE4:~$ ls /tmp/trash/
test1.txt_20250829_000252  trash.log
rith@DESKTOP-796GSE4:~$ cat /tmp/trash/trash.log
[2025-08-29 00:02:52] /home/rith/test1.txt -> /tmp/trash/test1.txt_20250829_000252
rith@DESKTOP-796GSE4:~$ restore test1.txt
mv: invalid option -- '>'
Try 'mv --help' for more information.
Restored 00:02:52]
rith@DESKTOP-796GSE4:~$ ls
99-realsense-libusb.rules  dev_ws      grpc_dictionary  librealsense  python  SE      vcpkg
bin                        Documents   ITC              mynode.py     ros2_ws
rith@DESKTOP-796GSE4:~$ restore test1.txt
Restored /home/rith/test1.txt
rith@DESKTOP-796GSE4:~$ ls
99-realsense-libusb.rules  dev_ws      grpc_dictionary  librealsense  python  SE      vcpkg
bin                        Documents   ITC              mynode.py     ros2_ws  test1.txt
rith@DESKTOP-796GSE4:~$
```