

# Embedded Linux Z2HV2

## Assignment 2 - Bash

### Safe Delete Script

#### Summary:

The goal of this Assignment is to practice the basics of Shell Scripting Usage and Capabilities.

Bonus: get familiar with daemons.

#### Requirements:

Implement, as a script, a "safe" delete command, `sdel.sh`.

Filenames passed as command-line arguments to this script are not deleted, but instead gzipped if not already compressed (use `file` to check), then moved to a `~/TRASH` directory. Upon invocation, the script checks the `~/TRASH` directory for files older than 48 hours and permanently deletes them.

**Bonus1:** Make the script periodically invoked by the "cron" daemon

**Bonus2:** Write the script so it can handle files and directories recursively. This would give it the capability of "safely deleting" entire directory structures.

#### Common bugs you need to take care of:

- The script should create only 1 TRASH directory in the home directory for the user who is currently using it.
- The script shouldn't compress a file if it is already compressed (**Hint:** don't rely on filenames for that check)
- Make sure that ur script is portable (e.g. don't use smth like `/home/ahmed/....`)
- If i passed multiple files or directories to the script it should handle each one alone and provide a zipped file for each entry

#### Test Scenarios:

- I will normally try to make your script break or behave incorrectly so use defensive coding strategy to counter wrong user inputs
- I will call the script with single parameters and multiple parameter
- The input parameters can be files and/or directories

#### How to deliver your work:

Create a Repository on your GitHub account and name it `Embedded_Linux_Z2H` (already created)

Create a folder within this repo called `assignment_2_bash`

Create your script in that folder and Name your script: `sdel.sh`

Commit and push your changes to the repo

Export your script to .pdf format

Submit A link to your "Repository" and both files "`sdel.sh`" and "`sdel.sh.pdf`" to the Assignment on google Classroom