HW#2 - Restore Script

Due Date: Feb 14 2016

CIS4361 Spring 2016

This assignment can be worked with a **group of 3 people**. I advise that you find a group (let me know if you need assistance with that) because that way you will be able to develop the team before the harder assignments later in the course come.

**Instructions:**

In out past assignment we worked with creating a recycle command that instead of deleting files it would send them to the trash can (aka. recyle bin in Windows).

For this assignment we will create the reverse operation, i.e., restoring the file that was sent to the recycle bin. This command will be added to the recycle command; thus, your submission will include the HW1 script and the HW2.

We will assume that we will be restoring one file from the trash can.

**Command Parameter Breakdown:**

recycle -d filename or recycle --delete filename: same as HW1

recycle -l or recycle --list: show the files in the trash can that can be restored

recycle -r filename or recycle --restore filename: restore a file inside of the trash can

**Flows that must be present (in addition to shown in parameter breakdown):**

* If a file that is not present in the trash can is asked to be restored an error is shown
* If an unknown parameter is passed an error is shown and a command help is printed (you can use the same parameter breakdown section in this document)
* If a file is restored a message should be displayed and the /files and /info files corresponding to the restored file should must be removed

**Hints:**

The following commands will be of use for this homework (use man <command> or <command> --help to check more usage details):

* **cp src dst:** copies a file from src (original file) to dst (destination path/file)
* **rm:** removes a file “permanently”
* **if [ -e FILENAME ]:** checks if a file exists
* **awk or sed:** commands for extracting the original path of the file

**References:**

* <http://ss64.com>
* <http://tldp.org/LDP/Bash-Beginners-Guide/html/index.html>
* <http://stackoverflow.com/questions/192249/how-do-i-parse-command-line-arguments-in-bash>