Bash scripts examples.

z1-1.sh

What it does:

The script allows the user to create, delete, copy, move file/folder and create folders given a path, using the parameters.

About:

Acceptable parameters:

-fc FILE; create a file

-dc DIRECTORY; create a directory

-copy SOURCE DESTINATION; copy

-mov SOURCE DESTINATION; move

-del FILE or DIRECTORY; delete

It is permissible to use * wildcard. Multiple files or directories can be added in a single command (separated by a space). Creating directories and deleting files and directories is recursive.

Usage example: copy all files with the 'txt' and 'sh' extensions from the current directory to the home directory:

```
./z1-1.sh -copy *.txt *.sh $HOME
```

z1-2.sh

What it does:

The script allows the user to create, delete, copy, move files/folders and create folders given a path, using the menu.

About:

The script runs in a loop as long as the termination option (6) has not been selected. Operating principle analogous to z1-1.sh script.

info.sh

What it does:

The script displays information about the running system according to the provided CLI parameter. The program has the following functionality:

1) displays information about free disk space; **-hd** parameter

2) displays information about free ram memory; **-ram** parameter

3) displays information about the processors installed in the main unit; **-cpu** parameter

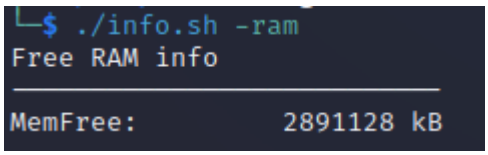
4) display all of the above; **-all** parameter

About:

The script only displays certain values for CPU - selected with grep. Have added the 'total' row for the -hd option.

Usage example: display RAM system info

./info.sh -ram



z4-generate.sh; z4-kill.sh

What they do:

z4-generate.sh script executes an infinite loop, and the actions inside the loop are executed every 1 second (sleep 1 command), before the loop starts, the process ID is written to the file **endlessScript.pid;**

The second script (**z4-kill.sh**), reads the process PID from the endlessScript.pid generated by the z4-generate.sh script and kills it (kill command).

About:

The z4-kill.sh script, in addition to killing the process started by z4-generate.sh, also deletes the contents of the file endlessScript.pid file - since the process has been killed and does not exist in the system, there is no need for the file to contain the non-existent PID of the process.

When z4-generate.sh is restarted, the file with the corresponding PID will be overwritten. If the file endlessScript.pid does not exist or does not contain a PID, this information will be displayed in the standard output.

z5.sh

What it does:

The script replaces processes text as follows:

- takes 2 arguments. The first specifies the word to be searched for and the second word into which the searched word is to be changed
- the processed text is taken from the input stream
- the processed text goes to the output stream.

The option to replace either only first or all occurrences of the text is given to the user.

Example usage: