

Course COMP-2560
 Instructor Dr. B. Boufama
 Assignment 02
 Due date Sunday Feb. 9, 11.59pm

Write a Bash script to organize some files in a given directory according to their extensions.

Synopsis:

```
organize [-t target-directory] [-d destination-directory] <extension-list>
```

Note: [] is used for optional parameters while <> is used for nonoptional parameters.

In the absence of the optional parameters, the current working directory is the target and the destination directory.

However, when

- -t option is present, the files to be organized are located in target-directory.
If target-directory is not a valid directory, then an error message must be printed before exiting.
- -d option is present, all concerned files will be moved into folders within destination-directory.
If destination-directory is not a valid directory, then an error message is printed before exiting.

Some sample runs:

Case 1: Organize files from/to current directory

```
% organize pdf doc
```

```
# in this case, 2 subdirectories, named pdf and doc, are created then, all *.pdf are
# moved to the pdf subdirectory while all *.doc files are moved to doc subdirectory.
```

Case 2: Organize files from current directory to a target directory.

```
% organize -d ~/archive pdf doc txt jpg
```

```
# 4 subdirectories, named pdf, doc, txt and jpg, are created in ~/archive/, then,
# all *.pdf, *.doc, *.txt and *.jpg are moved to their corresponding subdirectory,
# located in ~/archive/
# If ~/archive does not exist, an error message should be displayed before exiting.
```

Case 3: Organize files from target-directory to destination-directory

```
% organize -t /home/users/bigFoot/ -d Jan30-2025 pdf ppt
```

```
# 2 subdirectories, named pdf and ppt, are created in ./Jan30-2025/, then,
# all *.pdf and *.ppt are moved to their corresponding subdirectories,
# located in /home/users/bigFoot/
```

Hint: you can copy the script's arguments (\$*) into an array variable, then use an index variable to move in the array, depending on the options.

Notes:

1. All issues related to the assignments should be addressed to the TAs of the course.
2. Consult the TAs schedule on Brightspace in order to meet with them or email them for appointments.