

Course 60-256
 Instructor Dr. B. Boufama
 Assignment 01
 Due date Thursday Oct. 4, 11.59pm

Write a Bash script to back up a list of files with some given extensions. Basically the files are copied into a folder created in the target directory, named the current date. The name is a string obtained from **date** command, but blanks and : are removed, using **tr** command. E.g., WedSep19112241EDT2018 is a valid name, obtained using **date** and **tr**. Then, all files are archived using **tar** utility then, the original files are removed. The name of the archive should be archive.tar

Synopsis:

```
backup [-t] target-directory suffix-list...
```

By default, the current working directory is the target directory. However, when **-t** option is provided, the files to be copied are located in **target-directory**.

If **target-directory** is not a valid directory, then an error message is printed before exiting.

Some sample runs:

Case 1: backup files from current directory

```
% backup pdf jpg
copied pdf files
copied jpg files
tar file created ./WedSep19112241EDT2018/backup.tar
source files deleted
```

Case 2: backup files from a target-directory

```
% backup -t /home/users/bigFoot/ pdf ppt
copied pdf files
copied ppt files
tar file created ./WedSep19112241EDT2018/backup.tar
source files deleted
```

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

Notes:

1. The assignment should be uploaded to Blackboard
2. You can get some help from GAs and Tutors, consult their schedule on Blackboard.