Course	COMP-2560
Instructor	Dr. B. Boufama
Assignment	01
Due date	Sunday May 28, 11.59pm

Write a Bash script, called **myCompress**, with the following synopsis:

$$myCompress \; [-s \; size] \; [-p \; prog] \; <directory> \; <ext\_list>$$

What is between [and] is optional whereas what is between < and > is mandatory.

The script **myComress** will compress all files in $<directory>$ with extensions among the extension list given in $<ext\_list>$.

The options have the following effects:

- **-s size** : if present, only files larger than **size** bytes are concerned.

- **-p prog** : if present, use program **prog** to compress files, otherwise, use the unix utility **xz** (check the manual of xz).

Valid examples:

1. **myCompress -p gzip ./ ps pdf**
   All files in the current directory with extensions **ps** or **pdf** are to be compressed using the Unix utility **gzip**.

2. **myCompress ./files/letters doc pdf**
   All files in the directory **./files/letters**, with extensions **doc** or **pdf** are to be compressed using the default unix utility **xz**.

3. **myCompress -p gzip -s 10000 ./ doc pdf ps**
   Files in the current directory with sizes greater than **10000** bytes and with extensions **doc, ps** or, **pdf** are to be compressed using the utility **gzip**.

Note that :

- In case the user makes a call with a syntax error, the script should print an appropriate error message as well as a help on how use it. In particular, the script should detect a missing directory/extension list.

Notes:

1. All issues with labs and assignment should be directed to the GAs, their office hours are provided in ER3146 as follows:

   - Mondays : 5.30pm - 7:00pm, By Mr. Soroush Ziaeinejad (ziaeines@uwindsor.ca)
   - Wednesdays : 5.30pm - 7:00pm, By Mr. Rajath Bharadwaj (bharadw3@uwindsor.ca)
   - Fridays : 5.30pm - 7:00pm, By Mr. Yogeswar Narayanan (lakshmiy@uwindsor.ca)

   However, you should check the web page for any change in the future.

2. Solutions and marks for the assignments will be posted on Brightspace.