Project 2 - names2userids.sh

Due date: Mon, Jul 1, 11:59pm

Deliverable: names2userids.sh script directory uploaded to your private gitlab repo
(make jchung a Reporter member of the project)

Description:

Write a shell script called names2userids.sh to assign userids to a list of people based on their names. This is based on the makeuserids.sh exercise. The names2userids.sh script must take as its only commandline argument a list of people's names in a text file. The input file containing the list of names is p3names.txt. There is also a script template that you have the option to use.

The userids that are generated by names2userids.sh must take the form

[1st letter of first name][1st seven letters of last name]

for example,

John Doeadeer => jdoeadee

Userids must be lower case and contain no more than 8 characters and must not contain any special characters such as - or ' or any spaces.

If there is a userid collision, then numbers must be appended to the userids to differentiate, for example,

```
Jane Smith => jsmith => jsmith1
John Smith => jsmith => jsmith2

Nicholas Riviera => nriviera => nrivier1     # Remember: no more than
Natalie Rivieras => nriviera => nrivier2     # 8 characters for userids
```

The script must generate an output file containing Last Name, First Name, and Userid as follows:

```
Doeadeer, John :jdoeadee
Riviera, Nicholas :nrivier1
Rivieras, Natalie :nrivier2
Smith, Jane :jsmith1
Smith, John :jsmith2
...
```

The script must print out a usage statement when invoked with no command line arguments.

Write the names2userids.sh script to verbosely echo every step of the process and to display some type of progress indicator during the lengthy id generation process.

The input file has thousands of lines, and shell scripts can be slow. To test your script without the long waits between runs, use a smaller version of the input file for testing.

Additional Notes:

When a group of userids must be numbered because of duplicates, all duplicates must be numbered, starting from 1. That is, for example, if there are four userids that are 'asmith', then the 4 userids must be

asmith1
asmith2
asmith3
asmith4

Links:

String manipulation (string length, substrings)

- http://tldp.org/LDP/abs/html/string-manipulation.html
- http://stackabuse.com/substrings-in-bash/