

Bash Shell Scripting Lab 2

Create user-defined functions in a shell script for the following tasks, Using a Menu Driven Script:

- a) `add_user()` - Add a user to the system.
- b) `add_group()` - Add a group to the system.
- c) `change_password()` - Change user password.
- d) `delete_user()` - Remove a user from the system
- e) `copy_files()` - Copy Files within System
- f) `move_files()` - Remove files Within System

Using Functions Write the Following Script:

- a) Create a shell script to determine if given name is file or directory
- b) Create a shell script that specifies the permissions of the file pattern in a directory in a friendly readable format

Using Regex, Create a shell script that validates the email address as follows:

A valid email address meets the following criteria:

- It's composed of a username, domain name, and extension assembled in this format: `username@domain.extension`
- The username starts with an English alphabetical character, and any subsequent characters consist of one or more of the following: alphanumeric characters, `-`, `.`, and `_`.
- The domain and extension contain only English alphabetical characters.
- The extension is 1, 2, 3 or characters in length.

Given pairs of names and email addresses as input, print each name and email address pair having a valid email address on a new line.

dexter@hotmail.com

true

dexter@hotmail.com is a valid email address, so we print the name and email address pair received as input on a new line.

virus!@variable.:p

false

virus!@variable.:p is not a valid email address because the username contains an exclamation point (!) and the extension contains a colon (:). As this email is not valid, we print nothing.