CLI - Exercise 03: Scripting

Exercise 03 – Scripting

We will be creating three simple shell scripts.
Your results should be submitted to the DropBox as 3 separate files (no ZIP)

Q1. Create a BASH shell script called “checkPermissions.sh”

The script begins by prompting the user to enter the name of the file to check
If an argument was supplied on the command line ($1), then you can skip the prompt

The script will then

- Check that an argument was supplied
- Check that the argument is actually a valid file
- Display output to indicate if the current user has
    - Read permission
    - Write permission
    - eXecute permission

e.g.

```
You can Read
You cannot Write
You can eXecute
```

For each of the above ‘Checks”, if the check fails, the script will output an error message, and then exit

Q2. Create a BASH shell script called “wordCount.sh”

The script begins by prompting the user to enter the name of the file to check
If an argument was supplied on the command line ($1), then you can skip the prompt

The script will then

- Check that an argument was supplied
- Check that the argument is actually a valid file
- Check that the current user has Read permission on the specified file
- Finally, output the word count for the file

For each of the above ‘Checks”, if the check fails, the script will output an error message, and then exit

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Q3. Create a BASH shell script called “safeCopy.sh”

The script accepts 2 required arguments, and an optional third argument
If the required arguments are not supplied, an error message is displayed, and the proper usage is shown

The first argument is the source file
The second argument is the destination directory
The optional third argument is the new file name in the destination directory

Checks to be made:

- First argument exists, and is a file, and user has read permission
- Second argument exists, and is a directory, and user has write permission
- Check that the destination file does not already exist

If all checks pass, then your script will perform the ‘safe copy’, as requested