**S2110978**

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**Systems Programming**

**CW1 - Testing**

| Option | Expected result | Actual Result |
| --- | --- | --- |
| file give as argument  [*./versionBackup.sh myfile.txt*] | *myfile.txt* is copied to the backup directory as *myfile.txt.n.* n being the version number mean n-1 versions of *myfile.txt* had been backed up before |  |
| list (*-l*) | List the contents of the versionBackup directory with the size in bytes and the file type |  |
| recover (-r <filename>) | <filename> is copied from versionBackup directory to the current directory |  |
| delete (-d) | Loop through all the contents of the versionBackup directory and prompts user to select an option to delete or not delete a file |  |
| total (-t) | Display the total storage usage of the versionBackup directory. This option should also display a warning message if the usage exceeds 1Kbytes |  |
| monitor (-m) | Starts monitor script on a separate terminal window |  |
| kill (-k) | Kill monitor process if it was running |  |
| No argument  [./versionBackup.sh ] | Run the script in as a menu based interface giving the options for the user to manage the version backup directory |  |
| Ctrl+C | If the script was running as a menu based interface, Ctrl+C displays the number of regular files in the version backup directory and terminates the program |  |

Monitor.sh

| option | Expected Result | Actual Result |
| --- | --- | --- |
| monitor.sh | monitors changes in a specified backup directory. It checks for the creation, modification, and deletion of files in the directory and provides a summary of these changes. Checks should happen every 15 seconds, a new summary line should be printed with the timestamp only if changes were detected in the latest check. | Check intervals may sometimes exceed 15 seconds because it is difficult to estimate the actual time it takes to run the logic. |

Man page

