

University of Engineering and Technology, Lahore
Operating Systems Lab.

Semester: 6th

Session: 2019-23

Lab-10 (Individual)

Submission Date: 25-04-22 (09:00 am)

Note: Understanding the assignment is part of the assignment.

Q1. In this assignment you are required to display file status using stat system call.

Requirement:

1. Get filenames as command line arguments. For each file do the following

- 1.1 If filename does not exist then stop.
- 1.2 Call stat system call on the filename that returns a structure
- 1.3 Display members **st_uid**, **st_gid**, **st_blksize**, **st_block**, **st_size**, **st_nlink**.
- 1.4 Convert time members such as **st_atime**, **st_mtime** into time using ctime function
- 1.5 Compare st_mode with mode constants such as **S_IRUSR**, **S_IWGRP**, **S_IXOTH** and display file permissions.

2. If the file size is same for any two of the input file names then display this message along with file names.

3. Also take a screenshot of your final output screen and submit it along with submission.