

# CSE 4502 (SWE) [Operating Systems Lab]

## Lab #07

### Lab Task:

1. Task: Develop a script that generates a report summarizing the types of files (based on file extensions) present in a directory and its subdirectories. The report should include a count of each file type.

**Hint:** You can use a combination of *find*, *sed*, *sort*, and *uniq* commands to achieve this task. You'll need to extract file extensions, count them, and create a report.

*find* – To locate files and directories (`find [path...] [expression]`)

*Sed* – Text manipulation tools (`sed [options] 'script' input-file`)

*uniq -c* - *uniq* command with the *-c* option counts the occurrences of each unique file extension. (`uniq [options]...`)

2. Task: Write a script that automatically sorts files in a directory into subdirectories based on their modification date. For example, files modified in the last 7 days go into one folder, those modified in the last 30 days go into another, and so on.

**Hint:** Use *find*, to search for files based on modification date and *mkdir* to create directory and *mv* to move files to specific directory.

3. Task: Develop a script that Replace Text in Multiple Files

**Hint:** Use *find* to locate files and *sed* to perform text replacements.

4. Task: Write a script that Find and List Files Modified in the Last N Days.

**Hint:** Utilize *find* and the *-mtime* option to find files based on modification time.

5. Task: Create a script that checks for and removes empty lines in text files

**Hint:** Use *find*, *grep*, and *sed* to identify and remove empty lines from text files.