**find Assignment**

**Mandatory:**

1. Search and display all \*.c and \*.h files in all subdirectories starting from current directory

find -name “\*.c” -or -name “\*.h”

A black screen with many small colored lines

Description automatically generated with medium confidence

1. Search and display all directories in all subdirectories starting from current directory

find . -type d

A screenshot of a computer

Description automatically generated

1. Search and display all files with permissions only rw with user and execute permission for others

find . -type f -perm 701

A screenshot of a computer

Description automatically generated

**Optional Assignments:**

1. Search and copy all files whose size is < 500 bytes to a directory named “backup”

find . -size -500c -exec cp {} backup \;

1. Starting from home directory , find and display all
   * 1. empty files

find ~ -type f -empty

* + 1. read only files

find ~ -type f -perm -r

* + 1. all empty directories

find ~ -type d -empty

1. Search for a user input pattern in a set of files, extract all lines with the pattern , redirect to a file and display the contents of the file
2. Search and display all files which were modified in last 15 days

find . -mtime -15

1. Search and display all file which were modified in last 10-15 days

find . -mtime -10 -mtime +15

1. count the number of words in all \*.txt files in a directory and display

find . -name”\*.txt” -exec wc -w {} \;

1. In a given directory sort all files based on their size (descending order) and then read and display the contents of each file

Ls -S \*.txt | while read file; do cat “$file”;done