Assignment 03 – helping material

node
- name: name of file or directory
- path: path to file or directory (starting from root)
- type: file type/ null for directory
- child nodes: ref to left and right child nodes

CreateADirectory
CreateAFile
- take from user the complete path
- travel and see if the node is already full or available
- if available, attach new file/directory
- if full, create a new sub-directory and attach file/directory

ListingDirectoryTree
- display the complete tree, going in a level to level manner

MergingDirectories
- two directories, which have either 1 or zero child nodes - need to be merged
- ask user for destination directory
- ask user for source directory
- copy elements of source directory to destination directory
- delete source directory
- ask user to keep old name of destination directory or rename it

DeletingFile
- delete node and assign null to corresponding reference in parent node

DeletingFolder
- check if folder empty
- delete if empty,
- if not empty ask if need to merge with any other

Search
- take file name and printout path
- take directory and print true or false

Copy and move file
- take file name and destination directory from user
- copy file if space available
- move file if space available –
        --- if source directory becomes empty – ask if needs to be deleted

Exporting and importing

- file reading and writing