CSE 222 DATA STRUCTURES AND ALGORITHMS Homework 4 Report

In this assignment, I have fulfilled all the tasks requested from us completely. First of all, the classes in the assignment directive have been created exactly as requested. There is a menu function in the Main class and a function that will provide one programme flow according to the option selected in this function. All functions in the menu are processed in FileSystem.java file.

```
* disk/
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 5
Current directory: /root/home/include
Enter the name of file/directory to move: makefile
Enter new directory path: /home/source
Successfully moved 'makefile' to '/home/source'.
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 1
Current directory: /root/home/include
Enter new directory path: /home/source
Directory changed to: /home/source
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 2
Listing contents of source:
makefile
===== File System Managament Menu =====
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5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 2
Listing contents of include:
hello.c
makefile
* disk/
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 8
Sorted contents of include by date created:
hello.c (2024-04-22 22:13:33.774)
makefile (2024-04-22 22:13:45.63)
* disk/ (2024-04-22 22:13:56.43)
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 7
Path to current directory from root:
* root/
    * include/
        hello.c
        makefile
        * disk/
===== File System Managament Menu =====
```

```
8. Sorts content by date created
9. Exit
Please select an option: 3
Current directory: /root/home/include
Create file or directory (f/d): f
Enter name for new file: hello.c
File created: hello.c
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 3
Current directory: /root/home/include
Create file or directory (f/d): f
Enter name for new file: makefile
File created: makefile
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 3
Current directory: /root/home/include
Create file or directory (f/d): d
Enter name for new directory: disk
Directory created: disk/
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
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Please select an option: 3
Current directory: /root/home
Create file or directory (f/d): d
Enter name for new directory: source
Directory created: source/
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 3
Current directory: /root/home
Create file or directory (f/d): d
Enter name for new directory: include
Directory created: include/
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 1
Current directory: /root/home
Enter new directory path: /home/include
Directory changed to: /home/include
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
```

```
ahmete@ahmete-Inspiron-14-5401:~/DERSLER/2_SINIF/spring/Data-Structures/homework/hw4$ make run
java Main
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 3
Current directory: /root
Create file or directory (f/d): d
Enter name for new directory: home
Directory created: home/
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 1
Current directory: /root
Enter new directory path: /home
Directory changed to: /home
===== File System Managament Menu =====
1. Change directory
2. List directory contents
3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sorts content by date created
9. Exit
Please select an option: 3
```