

Alper Tavşanoğlu-210104004142-HW-4-Report

The purpose of this program is to implement a File and Folder Directory Tree system using recursion and object-oriented programming. The objective is to simulate directory structures and file management operations found in real-world file systems. Operations:

```
===== File System Management 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. Sort contents by date created
9. Exit
```

I created default absolute path like this:

root/home/user/Documents

```
alper@alper-VirtualBox:~/Desktop/deneme2$ make
javac -classpath . Main.java
alper@alper-VirtualBox:~/Desktop/deneme2$ make run
java Main

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
7
* root/
  * home/
    * user/
      * Documents/ (Current Directory)
```

```
alper@alper-VirtualBox: ~/Desktop

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
3
Current directory: root/home/user/Documents
Create file or directory (f/d): f
Enter name for new file: deneme.txt
File created: deneme.txt
```

```
alper@alper-VirtualBox: ~/Desktop

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
3
Current directory: root/home/user/Documents
Create file or directory (f/d): d
Enter name for new directory: new
Directory created: new
```

```
alper@alper-VirtualBox: ~/Desktop

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
7
* root/
  * home/
    * user/
      * Documents/ (Current Directory)
        deneme.txt
      * new
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
2
Listing contents of root/home/user/Documents:
* new/
deneme.txt
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
1
Current directory: root/home/user/Documents
Enter new directory path: root/home/user/Documents/new
Directory changed to: root/home/user/Documents/new
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
6
Enter search query: deneme.txt
Searching from root...
Found: root/home/user/Documents/deneme.txt
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
3
Current directory: root/home/user/Documents/new
Create file or directory (f/d): f
Enter name for new file: test2.txt
File created: test2.txt
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
5
Current directory: root/home/user/Documents/new
Enter the name of file/directory to move: test2.txt
Enter new directory path: root/home/user/Documents
File moved: test2.txt to root/home/user/Documents
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
1
Current directory: root/home/user/Documents/new
Enter new directory path: root/home/user/Documents
Directory changed to: root/home/user/Documents
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
7
* root/
  * home/
    * user/
      * Documents/ (Current Directory)
        deneme.txt
      * new
        test2.txt
```

```
alper@alper-VirtualBox: ~/Desktop/den

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
8
Sorted contents of root/home/user/Documents by date created:
deneme.txt (2024-04-22 23:13:28.057)
* new/ (2024-04-22 23:16:53.438)
test2.txt (2024-04-22 23:26:15.408)
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management Menu =====
1. Change directory
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3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
4
Current directory: root/home/user/Documents
Enter name of file/directory to delete: deneme.txt
File deleted: deneme.txt
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
2
Listing contents of root/home/user/Documents:
* new/
test2.txt
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
5
Current directory: root/home/user/Documents
Enter the name of file/directory to move: test2.txt
Enter new directory path: root/home/user/Documents/new
File moved: test2.txt to root/home/user/Documents/new
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
7
* root/
  * home/
    * user/
      * Documents/ (Current Directory)
        * new
```


alper@alper-Virt

==== File System Management 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. Sort contents by date created
9. Exit

10. Extra--Print Whole Tree

Please select an option:

6

Enter search query: home

Searching from root...

Found: root/home

alper@alper-VirtualBox

==== File System Management 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. Sort contents by date created
9. Exit

10. Extra--Print Whole Tree

Please select an option:

6

Enter search query: test2.txt

Searching from root...

Found: root/home/user/Documents/new/test2.txt

alper@alper-VirtualBox: ~/De

==== File System Management 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. Sort contents by date created
9. Exit

10. Extra--Print Whole Tree

Please select an option:

10

* root

 * home

 * user

 * Documents (Current Directory)

 * new

 test2.txt

alper@alper-VirtualBox: ~/Desktop

==== File System Management Menu ====

1. Change directory
2. List directory contents
3. Create file/directory
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5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sort contents by date created
9. Exit

10. Extra--Print Whole Tree

Please select an option:

4

Current directory: root/home/user/Documents

Enter name of file/directory to delete: new

Directory deleted: new

```
alper@alper-VirtualBox: ~/Desktop

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
7
* root/
  * home/
    * user/
      * Documents/ (Current Directory)
```

```
alper@alper-VirtualBox: ~/Desktop

===== File System Management Menu =====
1. Change directory
2. List directory contents
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4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
1
Current directory: root/home/user/Documents
Enter new directory path: root/home/user
Directory changed to: root/home/user
```

```
alper@alper-VirtualBox: ~/Desktop

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
5
Current directory: root/home/user
Enter the name of file/directory to move: Documents
Enter new directory path: root/home
Directory moved: Documents to root/home
```



```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management Menu =====
1. Change directory
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3. Create file/directory
4. Delete file/directory
5. Move file/directory
6. Search file/directory
7. Print directory tree
8. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
1
Current directory: root/home/user
Enter new directory path: root/home
Directory changed to: root/home
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management 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. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
2
Listing contents of root/home:
* user/
* Documents/
```

```
alper@alper-VirtualBox: ~/Desktop/

===== File System Management Menu =====
1. Change directory
2. List directory contents
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7. Print directory tree
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9. Exit
10. Extra--Print Whole Tree
Please select an option:
7
* root/
  * home/ (Current Directory)
    * user
    * Documents
```



alper@alper-VirtualBox: ~/Desk

```
10. Extra--Print Whole Tree
Please select an option:
7
* root/
  * home/ (Current Directory)
    * user
    * Documents

===== File System Management Menu =====
1. Change directory
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7. Print directory tree
8. Sort contents by date created
9. Exit
10. Extra--Print Whole Tree
Please select an option:
9
Exiting...
alper@alper-VirtualBox:~/Desktop/deneme2$
```