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CSE 222 HOMEWORK 4
REPORT

MAKEFILE COMMANDS:

make all : compile run clean

make compile: javac Main.java

make run: java Main

make clean: rm *.class

make doc: javadoc -protected -splitindex -use -author -
version -d ./javadoc *.java

make cleandoc: rm -r ./javadoc

OUTPUT

Note: I will use option 7 to see changes

Creating File/Directories:

```
javac Main.java
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
Please select an option: 3

Create file or directory (f/d): d
Enter name for new directory: User
Directory created: User/

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
Please select an option: 3

Create file or directory (f/d): f
Enter name for new file: File1
File created: File1

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
Please select an option: 7

Path to current directory from root:
* root/
  * home/ (Current Directory)
    * User/
      File1
```

Listing Contents:

```
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
Please select an option: 2

Listing contents of /home:
* User/
File1
```

Deleting File/Directories:

```
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
Please select an option: 4

Current directory: /home
Enter name of file/directory to delete: File1
File deleted: File1

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
Please select an option: 7

Path to current directory from root:
* root/
  * home/ (Current Directory)
    * User/
```

Changing Directory/File Directory/File

Moving

```
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
Please select an option: 1
```

```
Current directory: /home
Enter new directory path: /home/User
Directory changed to: /home/User
```

```
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
Please select an option: 7
```

```
Path to current directory from root:
* root/
  * home/
    * User/ (Current Directory)
      File1
```

```
Path to current directory from root:
* root/
  * home/
    * user/ (Current Directory)
      * tempfolder/
```

```
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
Please select an option: 5
```

```
Current directory: /home/user
Enter name of file/directory to move: tempfolder
Enter new directory path: /home
Moved tempfolder to /home
```

```
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
Please select an option: 7
```

```
Path to current directory from root:
* root/
  * home/
    * user/ (Current Directory)
      * tempfolder/
```

Searching File/Directory:

Path to current directory from root:

- * root/
 - * home/
 - * user/ (Current Directory)
 - report.txt
 - * tempfolder/

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

Please select an option: 6

Search query: report.txt

Found /home/user/report.txt

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

Please select an option: 6

Search query: f

Not found

Sorting Contents:

Path to current directory from root:

- * root/
 - * home/ (Current Directory)
 - * user/
 - * tempfolder/
 - asd

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

Please select an option: 8

Sorted contents of /home by date created:

- * user/ (2024-04-22 19:06:47)
- * tempfolder/ (2024-04-22 19:07:05)
- asd (2024-04-22 19:11:34)