

Run Program:

For compile => make all

For clean .class => make clean

For run => make run

Change Directory:

When input is entered as /home/user, the current object becomes the entered folder. If the folder is not found, the user is notified.

```
Please select an option:1
Current directory: /home/user/Documents/Projects
Enter name of directory to change to:/home/user/Documents/Projects/Project2
===== File System Management Menu =====
Current directory: /home/user/Documents/Projects/Project2
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
```

List Contents:

Prints the contents of the current object.

```
Current directory: /home/user/Documents/Projects/Project2
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
report.docx
my.txt
my2.txt
```

Create File or Directory:

It opens a file or a new folder inside the current object.

```
===== File System Management Menu =====
Current directory: /home/user/Documents/Projects/Project2
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
Current directory: /home/user/Documents/Projects/Project2
Create file or directory (f/d):
f
Enter name for new file:my.txt
File created: my.txt
```

Delete file or Directory:

A search is made according to the entered file or folder name and the object is removed.

```
===== File System Management Menu =====
Current directory: /home/user/Documents/Projects/Project2
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
Delete file or directory (f/d):
f
Enter name of file to delete:my2.txt
File deleted: my2.txt
===== File System Management Menu =====
Current directory: /home/user/Documents/Projects/Project2
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
report.docs
my.txt
```

Move file and directories:

The file/directory input and new path are taken. If the inputs are correct, the move is made.

```
Current directory: /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:5
Current directory: /home/user
Enter the name of file/directory to move:my.txt
Enter new directory path:/home
File Moved: my.txt to /home
```

Search File or Directory:

A search is made according to the input, and if it is found, its location is printed.

```
Enter name for new file:my.txt
File created: my.txt
===== File System Management Menu =====
Current directory: /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:6
Search query:
my.txt
Searching from root...
Found: /home/user/my.txt
```

Print Tree:

The tree structure towards the current directory is printed.

```
===== File System Management Menu =====
Current directory: /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
* root/
  * home/
    * user/
      * Documents/
```

Sort Directory:

Sorting is done according to timestamp.

```
Please select an option:8
Sorted contents of /home by date created:
my.txt (2024-04-22 22:08:36.948)
my2.txt (2024-04-22 22:08:39.985)
* Projects (2024-04-22 22:08:52.764)
```