

```
bilal@DESKTOP-2VVTIKQ:/mnt/c/Users/Muhammed Bilal Türk/Desktop/HW4/src/cse222/gtu$ make
```

```
Current directory: /
```

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

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

```
Please select an option: 4
```

```
Enter directory name to create: home
```

```
Directory created: home
```

Current directory: /

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

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

Please select an option: 4

Enter directory name to create: Desktop

Directory created: Desktop

Current directory: /

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

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

Please select an option: 4

Enter directory name to create: Documents

Directory created: Documents

Current directory: /

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

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

Please select an option: 3

Enter file name to create: hw4.pdf

File created: hw4.pdf

Current directory: /

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

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

Please select an option: 3

Enter file name to create: test.docx

File created: test.docx

Current directory: /

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

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

Please select an option: 2

Listing contents of /:

test.docx

hw4.pdf

\* Documents

\* Desktop

\* home

Current directory: /

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

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

Please select an option: 1

Current directory: /

Enter new directory path: home

Current directory: /home/

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

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

Please select an option: 4

Enter directory name to create: reports

Directory created: reports

Current directory: /home/

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

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

Please select an option: 4

Enter directory name to create: homeworks

Directory created: homeworks

Current directory: /home/

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

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

Please select an option: 3

Enter file name to create: test.java

File created: test.java

Current directory: /home/

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

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

Please select an option: 2

Listing contents of /home/:

test.java

\* homeworks

\* reports

Current directory: /home/

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

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

Please select an option: 1

Current directory: /home/

Enter new directory path: home/reports

Current directory: /home/reports/

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

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

Please select an option: 4

Enter directory name to create: report#1

Directory created: report#1

Current directory: /home/reports/

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

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

Please select an option: 4

Enter directory name to create: report#2

Directory created: report#2

Current directory: /home/reports/

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

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

Please select an option: 3

Enter file name to create: report2.pdf

File created: report2.pdf



Current directory: /home/reports/  
==== File System Management Menu ====

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

Please select an option: 2

Listing contents of /home/reports/:  
report2.pdf

\* report#2

\* report#1

Current directory: /home/reports/  
==== File System Management Menu ====

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

Please select an option: 1

Current directory: /home/reports/

Enter new directory path: home/reports/report#2

Directory 'report#2' not found.

Current directory: /home/reports/

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

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

Please select an option: 1

Current directory: /home/reports/

Enter new directory path: home/reports/report#2

Current directory: /home/reports/report#2/

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

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

Please select an option: 9

\* /

\* home/

\* reports/

\* report#2/

Current directory: /home/reports/report#2/

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

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

Please select an option: 2

Listing contents of /home/reports/report#2/:

Current directory: /home/reports/report#2/

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

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

Please select an option: 1

Current directory: /home/reports/report#2/

Enter new directory path: /

Current directory: /

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

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

Please select an option: 8

Search query: report2.pdf

Searching from root...

Found: /home/reports/report2.pdf

Current directory: /

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

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

Please select an option: 1

Current directory: /

Enter new directory path: home/reports

Current directory: /home/reports/

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

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

Please select an option: 7

Current directory: /home/reports/

Enter the name of file/directory to move: report2.pdf

Enter new directory path: home/reports/report#2

Element 'report2.pdf' moved to 'home/reports/report#2'

Current directory: /home/reports/

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

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

Please select an option: 8

Search query: report2.pdf

Searching from root...

Found: /home/reports/report#2/report2.pdf

```
Current directory: /home/reports/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 9
* /
  * home/
    * reports/
```

```
Current directory: /home/reports/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 1
Current directory: /home/reports/
Enter new directory path: home/reports/report#2
```

Current directory: /home/reports/report#2/

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

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

Please select an option: 9

\* /

\* home/

\* reports/

\* report#2/

report2.pdf

Current directory: /home/reports/report#2/

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

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

Please select an option: 5

Enter file name to delete: report2.pdf

File deleted: report2.pdf

```
Current directory: /home/reports/report#2/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 8
Search query: report2.pdf
Searching from root...
report2.pdf not found!
```

```
Current directory: /home/reports/report#2/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 1
Current directory: /home/reports/report#2/
Enter new directory path: 1
Directory '1' not found.
```



```
Current directory: /home/reports/report#2/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 8
Search query: reports
Searching from root...
Found: /home/reports/
```

```
Current directory: /home/reports/report#2/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 8
Search query: report#2
Searching from root...
Found: /home/reports/report#2/
```

```
Current directory: /home/reports/report#2/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 6
Enter directory name to delete: reports
Directory named reports not found!
```

```
Current directory: /home/reports/report#2/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 1
Current directory: /home/reports/report#2/
Enter new directory path: home/reports
```

Current directory: /home/reports/

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

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

Please select an option: 2

Listing contents of /home/reports/:

\* report#2

\* report#1

Current directory: /home/reports/

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

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

Please select an option: 1

Current directory: /home/reports/

Enter new directory path: home

Current directory: /home/

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

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

Please select an option: 2

Listing contents of /home/:

test.java

\* homeworks

\* reports

Current directory: /home/

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

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

Please select an option: 6

Enter directory name to delete: reports

Directory deleted: reports

Current directory: /home/

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

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

Please select an option: 8

Search query: report#2

Searching from root...

report#2 not found!

Current directory: /home/

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

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

Please select an option: 2

Listing contents of /home/:

test.java

\* homeworks

Current directory: /home/

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

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

Please select an option: 1

Current directory: /home/

Enter new directory path: /

Current directory: /

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

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

Please select an option: 2

Listing contents of /:

test.docx

hw4.pdf

\* Documents

\* Desktop

\* home

Current directory: /

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

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

Please select an option: 7

Current directory: /

Enter the name of file/directory to move: hw4.pdf

Enter new directory path: home/homeworks

Element 'hw4.pdf' moved to 'home/homeworks'

Current directory: /

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

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

Please select an option: 2

Listing contents of /:

test.docx

\* Documents

\* Desktop

\* home

Current directory: /

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

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

Please select an option: 1

Current directory: /

Enter new directory path: home/homeworks

Current directory: /home/homeworks/

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

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

Please select an option: 2

Listing contents of /home/homeworks/:

hw4.pdf



```
Current directory: /home/homeworks/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 9
* /
  * home/
    * homeworks/
      hw4.pdf
```

```
Current directory: /home/homeworks/
==== File System Management Menu ====
1. Change directory
2. List directory contents
3. Create file
4. Create directory
5. Delete file
6. Delete directory
7. Move file/directory
8. Search file/directory
9. Print directory tree
10. Sort contents by date
11. Exit
Please select an option: 10
Sorted contents of / by date created:
* home (2024-04-22 13:53:18.888)
* Desktop (2024-04-22 13:53:23.344)
* Documents (2024-04-22 13:53:32.871)
test.docx (2024-04-22 13:54:00.394)
```

Current directory: /

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

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

Please select an option: 11

**bilal@DESKTOP-2VVTKIQ:/mnt/c/Users/Muhammed Bilal Türk/Desktop/HW4/src/cse222/gtu\$**