Assignment 3
COIS 2020h
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Assignment 3 - Testing Documentation

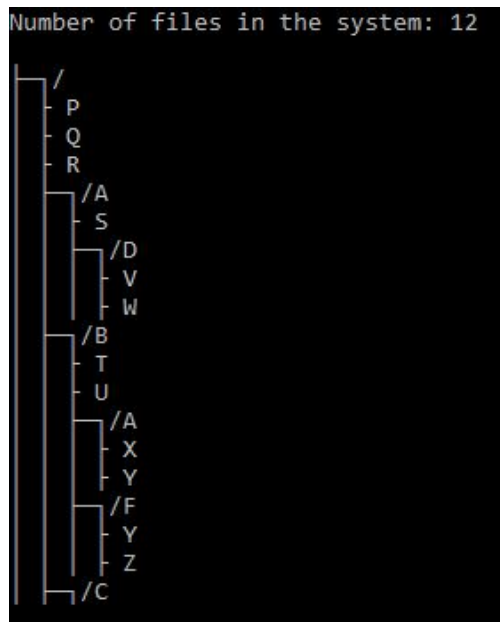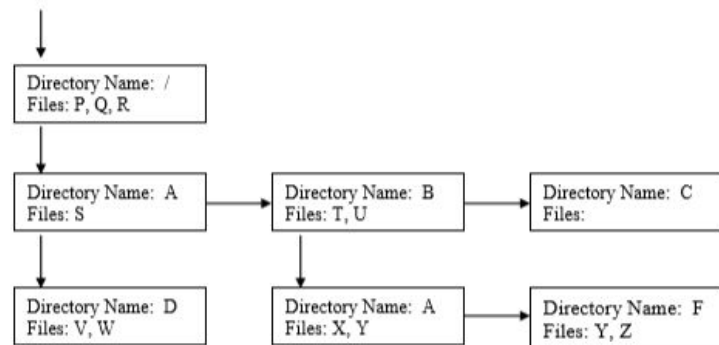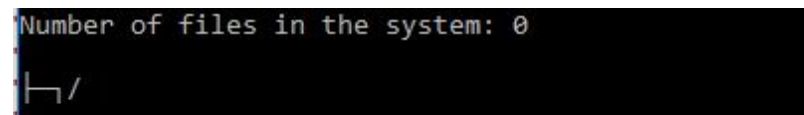Final product layout compared to diagram in assignment file

Creating an empty File System - FileSystem()

Adding a directory - AddDirectory()

```
Number of files in the system: 0

├─┐ /

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added: /c
Directory Added

Press Any Key to Continue
Number of files in the system: 0

├─┐ /
  └─┐ /c
```

Adding a directory to an existing directory - AddDirectory()

```
Number of files in the system: 0

 ┌┐/
 │ └┐/c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added: /c/t
Directory Added

Press Any Key to Continue
Number of files in the system: 0

 ┌┐/
 │ └┐/c
 │  └┐/t
```

Removing an existing directory - RemoveDirectory()

```
Number of files in the system: 0

 ┌┐/
 │ └┐/c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 2


Please enter a directory to be removed: /c
Directory Removed

Press Any Key to Continue
Number of files in the system: 0

 ┌┐/
```

Removing an existing directory nested in a directory - RemoveDirectory()

```
/Number of files in the system: 0

      /
       /c
        /t

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 2


Please enter a directory to be removed: /c/t
Directory Removed

Press Any Key to Continue
Number of files in the system: 0

      /
       /c
```

Removing an existing directory containing nested directories - RemoveDirectory()

```
Number of files in the system: 0

      /
       /c
        /t

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 2


Please enter a directory to be removed: /c
Directory Removed

Press Any Key to Continue
Number of files in the system: 0

    /
```

Adding a file to existing directory- AddFile()

```
Number of files in the system: 0

 ┌─ /
 │ └┐ /c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 3


Please enter a file to be added: /c/File
File Added

Press Any Key to Continue
Number of files in the system: 1

 ┌─ /
 │ └┐ /c
 │ │├ File
```

Removing a file from existing directory - RemoveFile()

```
Number of files in the system: 1

 ┌─ /
 │ └┐ /c
 │ │├ File

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 4


Please enter a file to be removed: /c/File
File Removed

Press Any Key to Continue
Number of files in the system: 0

 ┌─ /
 │ └┐ /c
```

Adding a file to root directory - AddFile()

```
Number of files in the system: 0

⊢⌐/

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 3


Please enter a file to be added: /File
File Added

Press Any Key to Continue
Number of files in the system: 1

⊢⌐/
│ ├ File
```

Removing a file from root directory - RemoveFile()

```
Number of files in the system: 1

⊢⌐/
│ ├ File

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 4


Please enter a file to be removed: /File
File Removed

Press Any Key to Continue
Number of files in the system: 0

⊢⌐/
```

Trying to add the root directory "/" - AddDirectory()

```
Number of files in the system: 0

⊢⌐/

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added: /
Invalid directory passed

Press Any Key to Continue
Number of files in the system: 0

⊢⌐/
```

Removing the root directory "/" - RemoveDirectory()

```
Number of files in the system: 0

⊢⌐/

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 2


Please enter a directory to be removed: /
Path is Undefined

Press Any Key to Continue
Number of files in the system: 0

⊢⌐/
```

Adding a pre-existing directory - AddDirectory()

```
Number of files in the system: 0

 ┤├─┐/
 ├┘ └─┐/c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added: /c
Directory Already Exists or the Path is Undefined

Press Any Key to Continue
Number of files in the system: 0

 ├─┐/
 ├┘ └─┐/c
```

Removing a non-existent directory - RemoveDirectory()

```
Number of files in the system: 0

  ┐ /
  └┐ /c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 2


Please enter a directory to be removed: /d
Path is Undefined

Press Any Key to Continue
Number of files in the system: 0

  ┐ /
  └┐ /c
```

```
Number of files in the system: 0

  ┐ /
  └┐ /c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 2


Please enter a directory to be removed: /d/c
Path is Undefined
```

Adding a pre-existing file - AddFile()

```
Number of files in the system: 1

  ┌┐ /
  │└┐ /c
  │ │├ File

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 3


Please enter a file to be added: /c/File
File Already Exists in Directory or the Path is Undefined

Press Any Key to Continue
Number of files in the system: 1

  ┌┐ /
  │└┐ /c
  │ │├ File
```

Removing a non-existent file - RemoveFile()

```
Number of files in the system: 0

  ┌┐ /
  │└┐ /c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 4


Please enter a file to be removed: /File
Path is Undefined

Press Any Key to Continue
Number of files in the system: 0

  ┌┐ /
  │└┐ /c
```

Adding a directory with the same name as an existing directory on same level - AddDirectory()

```
Number of files in the system: 0

  ┐ /
  └┐ /c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added: /c
Directory Already Exists or the Path is Undefined

Press Any Key to Continue
Number of files in the system: 0

  ┐ /
  └┐ /c
```

Adding a directory with the same name as an existing directory on another level - AddDirectory()

```
Number of files in the system: 0

  ┐ /
  └┐ /c

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added: /c/c
Directory Added

Press Any Key to Continue
Number of files in the system: 0

  ┐ /
  └┐ /c
    └┐ /c
```

Adding a file with the same name as an existing file in another directory - AddFile()

```
Number of files in the system: 1

  ┌ /
  │  ┐ /c
  │  │ ├ File
  │  │ └ /c
  │  │
1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 3


Please enter a file to be added: /c/c/File
File Added

Press Any Key to Continue
Number of files in the system: 2

  ┌ /
  │  ┐ /c
  │  │ ├ File
  │  │ ┐ /c
  │  │ ├ File
```
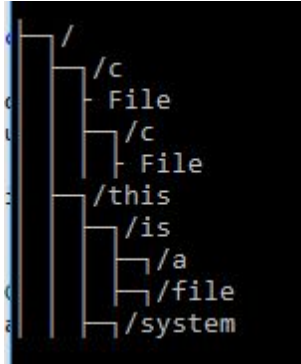
Calculation number of files in the file system - NumberFiles()

```
Number of files in the system: 2

  ┌ /
  │  ┐ /c
  │  ├ File
  │  ┐ /c
  │  ├ File
```

Printing the file system - PrintFileSystem()

```
┌─/
  └─/c
   ├─File
    └─/c
     ├─File
   └─/this
     └─/is
       └─/a
       └─/file
     └─/system
```

Trying to add a directory address "//" - Option()

```
Number of files in the system: 0

└─/

1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added: //
Invalid directory passed

Press Any Key to Continue
Number of files in the system: 0

└─/
```

Trying to add a directory with empty address - Option()

```
1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 1


Please enter a directory to be added:
Directory Already Exists or the Path is Undefined
```

Trying to add a file with empty address - Option()

```
1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: 3


Please enter a file to be added:
Invalid directory passed
```

Trying to choose an invalid option - Option()

```
1. Add directory
2. Delete directory
3. Add file
4. Delete file

Please select and option: k
Error invalid selection
```