Wed Jul 17 12:36:35 2024

```
1
     1. harsh@LAPTOP-GQUDU5KB:~$ pwd
 2
     /home/harsh
    harsh@LAPTOP-GQUDU5KB:~$ cd
 3
 4
    harsh@LAPTOP-GQUDU5KB:~$ ls
     file1 file2 file3 harsh test1 test2
 5
    harsh@LAPTOP-GQUDU5KB:~$ mkdir harsh
 6
 7
    mkdir: cannot create directory 'harsh': File exists
     harsh@LAPTOP-GQUDU5KB:~$ mkdir ex1
 8
 9
     harsh@LAPTOP-GQUDU5KB:~$ cd ex1
10
    harsh@LAPTOP-GQUDU5KB:~/ex1$ nano a.txt b.txt c.txt
    harsh@LAPTOP-GQUDU5KB:~/ex1$ ls
11
12
     a.txt b.txt c.txt
13
    harsh@LAPTOP-GQUDU5KB:~/ex1$ grep "bioinformatics" *.*
14
     a.txt:bioinformatics
15
     b.txt:bioinformatics
     harsh@LAPTOP-GQUDU5KB:~/ex1$ grep "bioinformatics" *.* |wc -l
16
17
18
     root@LAPTOP-GQUDU5KB:/home/harsh# nano a.txt b.txt c.txt
19
     root@LAPTOP-GQUDU5KB:/home/harsh# grep "sequence" *.* |wc -1
20
21
22
23
     2. harsh@LAPTOP-GQUDU5KB:~$ pwd
24
     /home/harsh
25
    harsh@LAPTOP-GQUDU5KB:~$ ls -lt
    total 36
26
                               10 Jul 16 20:40 c.txt
27
     -rw-r--r-- 1 root root
28
                                25 Jul 16 20:39 a.txty
     -rw-r--r-- 1 root root
29
     drwxr-xr-x 2 harsh harsh 4096 Jul 16 20:20 ex1
30
     drwxr-xr-x 2 harsh harsh 4096 Jul 15 13:15 harsh
31
     drwxr-xr-x 2 harsh harsh 4096 Jul 14 19:31 test2
32
     -rw-r--r-- 1 harsh harsh 17 Jul 14 19:21 file3
     -rw-r--r-- 1 harsh harsh 47 Jul 14 19:21 file2
33
34
     -rw-r--r-- 1 harsh harsh 28 Jul 14 19:20 file1
     drwxr-xr-x 2 harsh harsh 4096 Jul 14 19:18 test1
35
    harsh@LAPTOP-GQUDU5KB:~$ sudo su
36
37
    [sudo] password for harsh:
38
     root@LAPTOP-GQUDU5KB:/home/harsh# chmod 770 *.*
39
     root@LAPTOP-GQUDU5KB:/home/harsh# ls -lt
40
     total 36
     -rwxrwx--- 1 root root
                               10 Jul 16 20:40 c.txt
41
42
     -rwxrwx--- 1 root root
                                25 Jul 16 20:39 a.txty
43
     drwxr-xr-x 2 harsh harsh 4096 Jul 16 20:20 ex1
44
     drwxr-xr-x 2 harsh harsh 4096 Jul 15 13:15 harsh
     drwxr-xr-x 2 harsh harsh 4096 Jul 14 19:31 test2
45
46
     -rw-r--r-- 1 harsh harsh 17 Jul 14 19:21 file3
     -rw-r--r-- 1 harsh harsh 47 Jul 14 19:21 file2
47
48
     -rw-r--r-- 1 harsh harsh 28 Jul 14 19:20 file1
49
     drwxr-xr-x 2 harsh harsh 4096 Jul 14 19:18 test1
50
51
52
     3. drwxr-xr-x 2 harsh harsh 4096 Jul 16 20:20 ex1
53
     drwxr-xr-x 2 harsh harsh 4096 Jul 15 13:15 harsh
54
     drwxr-xr-x 2 harsh harsh 4096 Jul 14 19:31 test2
5.5
     -rw-r--r-- 1 harsh harsh 17 Jul 14 19:21 file3
56
57
     -rw-r--r-- 1 harsh harsh
                               47 Jul 14 19:21 file2
```

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```
-rw-r--r-- 1 harsh harsh
                                 28 Jul 14 19:20 file1
     drwxr-xr-x 2 harsh harsh 4096 Jul 14 19:18 test1
 60
     harsh@LAPTOP-GQUDU5KB:~$ grep "ERROR" errorlogfile.txt
     2024-07-11 12:02:41 ERROR Database connection failed
 61
 62
      2024-07-11 12:04:53 ERROR Failed to load configuration
 63
      2024-07-11 12:06:45 ERROR User authentication failed
     2024-07-11 12:08:30 ERROR Unable to save file
 64
     harsh@LAPTOP-GQUDU5KB:~$ grep "ERROR" errorlogfile.txt | sort +1 -2 | cat >
 65
                                                                                             \Box
     error logs.txt
 66
     harsh@LAPTOP-GQUDU5KB:~$ cat error logs.txt
 67
      2024-07-11 12:02:41 ERROR Database connection failed
      2024-07-11 12:04:53 ERROR Failed to load configuration
 68
      2024-07-11 12:06:45 ERROR User authentication failed
 69
70
     2024-07-11 12:08:30 ERROR Unable to save file
71
     harsh@LAPTOP-GQUDU5KB:~$ cat errorlogfile.txt
 72
      2024-07-11 12:01:34 INFO User logged in
      2024-07-11 12:02:41 ERROR Database connection failed
73
     2024-07-11 12:03:12 WARNING Disk space low
74
75
      2024-07-11 12:04:53 ERROR Failed to load configuration
 76
      2024-07-11 12:05:01 INFO File uploaded successfully
     2024-07-11 12:06:45 ERROR User authentication failed
 77
 78
      2024-07-11 12:07:22 INFO System shutdown initiated
      2024-07-11 12:08:30 ERROR Unable to save file
79
 80
      2024-07-11 12:09:19 WARNING High memory usage
81
      2024-07-11 12:10:10 INFO User logged out
82
83
84
     4. harsh@LAPTOP-GQUDU5KB:~$ mkdir dept
85
     harsh@LAPTOP-GQUDU5KB:~$ cd dept
86
     harsh@LAPTOP-GQUDU5KB:~/dept$ mkdir fin pers mktg
87
     harsh@LAPTOP-GQUDU5KB:~/dept$ cd fin
88
     harsh@LAPTOP-GQUDU5KB:~/dept/fin$ mkdir exp inc
89
     harsh@LAPTOP-GQUDU5KB:~/dept/fin$ cd..
90
     cd..: command not found
 91
     harsh@LAPTOP-GQUDU5KB:~/dept/fin$ cd pers
92
     -bash: cd: pers: No such file or directory
93
     harsh@LAPTOP-GQUDU5KB:~/dept/fin$ cd ..
94
     harsh@LAPTOP-GQUDU5KB:~/dept$ cd pers
 95
     harsh@LAPTOP-GQUDU5KB:~/dept/pers$ mkdir admin pay
     harsh@LAPTOP-GQUDU5KB:~/dept/pers$ cd ..
96
97
     harsh@LAPTOP-GQUDU5KB:~/dept$ cd fin
98
     harsh@LAPTOP-GQUDU5KB:~/dept/fin$ cd exp
99
     harsh@LAPTOP-GQUDU5KB:~/dept/fin/exp$ touch ent.txt postage.txt
100
     harsh@LAPTOP-GQUDU5KB:~/dept/fin/exp$ cd ..
101
     harsh@LAPTOP-GQUDU5KB:~/dept/fin$ cd inc
102
     harsh@LAPTOP-GQUDU5KB:~/dept/fin/inc$ touch fees.txt sales.txt
     harsh@LAPTOP-GQUDU5KB:~/dept/fin/inc$ cd ..
103
     harsh@LAPTOP-GQUDU5KB:~/dept/fin$ cd ..
104
105
     harsh@LAPTOP-GQUDU5KB:~/dept$ cd pers
106
     harsh@LAPTOP-GQUDU5KB:~/dept/pers$ cd admin
107
     harsh@LAPTOP-GQUDU5KB:~/dept/pers/admin$ touch exp.txt reco.txt
108
     harsh@LAPTOP-GQUDU5KB:~/dept/pers/admin$ cd ..
109
     harsh@LAPTOP-GQUDU5KB:~/dept/pers$ cd pay
110
     harsh@LAPTOP-GQUDU5KB:~/dept/pers/pay$ touch ded.txt add.txt
111
     harsh@LAPTOP-GQUDU5KB:~/dept/pers/pay$ cd ..
112
     harsh@LAPTOP-GQUDU5KB:~/dept/pers$ cd ..
113
     harsh@LAPTOP-GQUDU5KB:~/dept$ cd mktg
```

```
114
      harsh@LAPTOP-GQUDU5KB:~/dept/mktg$ touch salesinfo.txt pur.txt
115
      harsh@LAPTOP-GQUDU5KB:~/dept/mktg$ cd ...
116
      harsh@LAPTOP-GQUDU5KB:~/dept$ tree
117
118
        - a.txty
119
       - c.txt
       - dept
120
          └── fin
121
122
                — ехр
123
                  - ent.txt
124
                    - postage.txt
125
                 - inc
126
                    - fees.txt
                   - sales.txt
127
128
             - mktg
129
               - pur.txt
130
              131
            - pers
132
                - admin
133
                  - exp.txt
134
                    - reco.txt
135
                - pay
136
                    — add.txt
                  ded.txt
137
      - error_logs.txt
138
139
        - errorlogfile.txt
        - errorlogfile.txt:SandBoxSafeFile
140
        - errorlogfile.txt:Zone.Identifier
141
       -- ex1
142
          a.txt b.txt
143
144
          c.txt
145
146
        — file1
       - file2
147
148
        - file3
149
        - harsh
150
          ___ 1.txt
            - 2.txt
151
          3.txt
152
153
        - snap
          └─ tree
154
155
              156
                - common
              __ current -> 18
157
158
        - test1
      test2
159
          ├── f1
160
            - f1.txt
161
          F f2
162
163
          ├── f2.txt
          — f3
164
          └─ f3.txt
165
166
      17 directories, 31 files
      harsh@LAPTOP-GQUDU5KB:~$ tree dept
167
168
      dept
       -- fin
169
170
         — ехр
```

```
171
                - ent.txt
172
                postage.txt
173
              inc
174
                - fees.txt
175
                - sales.txt
176
        - mktq
177
           - pur.txt
          — salesinfo.txt
178
179
        - pers
180
            - admin
181
              - exp.txt
182
                - reco.txt
183
             pay
184
                add.txt
185
                ded.txt
186
      7 directories, 10 files
187
188
      harsh@LAPTOP-GQUDU5KB:~$ cp dept/pers/pay/ded.txt dept/mktg/deduc.txt
189
      harsh@LAPTOP-GQUDU5KB:~$ ln -s $(pwd)/dept/mktg/deduc dept/pers/admin/deduc link
190
      harsh@LAPTOP-GQUDU5KB:~$ cp dept/mktg/salesinfo.txt dept///pers/pay
191
      harsh@LAPTOP-GQUDU5KB:~$ mv dept/pers/pay/salesinfo.txt dept/fin/exp/sinfo.txt
192
      harsh@LAPTOP-GQUDU5KB:~$ cp dept/fin/exp/sinfo.txt dept/fin/
      harsh@LAPTOP-GQUDU5KB:~$ rm dept/fin/exp/sinfo.txt
193
194
      harsh@LAPTOP-GQUDU5KB:~$ mv dept/fin/exp/postage.txt dept/pers/pexp.txt
195
      harsh@LAPTOP-GQUDU5KB:~$ ln -s $(pwd)/dept/pers/pexp.txt dept/pers/pexp link
196
      harsh@LAPTOP-GQUDU5KB:~$ rm dept/pers/pexp.txt
      harsh@LAPTOP-GQUDU5KB:~$ cd dept
197
      harsh@LAPTOP-GQUDU5KB:~/dept$ tree
198
199
200
        - fin
201
            - exp
202
              └─ ent.txt
203
             inc
204
              - fees.txt
205
              └─ sales.txt
206
            - sinfo.txt
207
        - mktg
208
          - deduc.txt
            - pur.txt
209
          salesinfo.txt
210
211
        - pers
212
             - admin
213
              deduc link -> /home/harsh/dept/mktg/deduc
214
                - exp.txt
              reco.txt
215
216
            - pay
               - add.txt
217
218
               — ded.txt
219
             - pexp link -> /home/harsh/dept/pers/pexp.txt
```