```
Page 1 of 4
```

```
1
 2
     Q1.
 3
 4
     1)
     padma@PRIYA:~$ ls -lt
 5
     total 24
 6
 7
     drwxr-xr-x 6 padma padma 4096 Jul 14 21:41 expl
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp2
 8
 9
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp3
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp4
10
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp5
11
     drwx----- 3 padma padma 4096 Jul 14 21:34 snap
12
     padma@PRIYA:~$ tree
13
14
15
       - exp1
         — ques1
16
17
           — ques2
          ques3
18
         L— ques4
19
20
       – exp2
21

    exp3

22
       — exp4
23

    exp5

       - snap
24
         L__ tree
25
             26
27
                - common
28
             ___ current -> 18
29
30
     14 directories, 0 files
31
32
     2)
33
     padma@PRIYA:~$ cd exp1
34
     padma@PRIYA:~/exp1$ cd ques1
35
     padma@PRIYA:~/exp1/ques1$ nano new.txt
36
     padma@PRIYA:~/exp1/ques1$ nano new1.txt
37
     padma@PRIYA:~/exp1/ques1$ nano new2.txt
38
     padma@PRIYA:~/exp1/ques1$ grep -rl "bioinformatics"
39
     new.txt
40
     new1.txt
41
42
43
     padma@PRIYA:~/exp1/ques1$ grep -r "sequence" | wc -l
44
45
46
     Q2.
47
48
     padma@PRIYA:~/exp1$ cd
49
     padma@PRIYA:~$ cd exp1
50
     padma@PRIYA:~/exp1$ cd ques2
51
     padma@PRIYA:~/exp1/ques2$ ls -lt
52
     total 12
53
     -rw-r--r 1 padma padma 10 Jul 16 21:42 cls2.txt
54
     -rw-r--r-- 1 padma padma 9 Jul 16 21:42 cls1.txt
55
     -rw-r--r-- 1 padma padma 7 Jul 16 21:42 cls.txt
56
     padma@PRIYA:~/exp1/ques2$ chmod 040 *.*
57
     padma@PRIYA:~/exp1/ques2$ ls -lt
```

Page 2 of 4

```
58
     total 12
 59
      ---r--- 1 padma padma 10 Jul 16 21:42 cls2.txt
     ---r--- 1 padma padma 9 Jul 16 21:42 cls1.txt
 60
     ---r--- 1 padma padma 7 Jul 16 21:42 cls.txt
 61
 62
 63
 64
 65
     Q3.
 66
 67
     padma@PRIYA:~$ ls -lt
 68
     total 36
 69
     -rw-r--r-- 1 padma padma 480 Jul 17 12:08 errorlogfile.txt
 70
     -rw-r--r- 1 padma padma 55 Jul 17 12:08 errorlogfile.txt:Zone.Identifier
71
     drwxr-xr-x 5 padma padma 4096 Jul 16 22:09 dept
72
     drwxr-xr-x 6 padma padma 4096 Jul 14 21:41 exp1
 73
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp2
74
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp3
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp4
75
76
     drwxr-xr-x 2 padma padma 4096 Jul 14 21:41 exp5
 77
     drwx----- 3 padma padma 4096 Jul 14 21:34 snap
 78
 79
      padma@PRIYA:~$ grep "ERROR" errorlogfile.txt
80
 81
      2024-07-11 12:02:41 ERROR Database connection failed
82
     2024-07-11 12:04:53 ERROR Failed to load configuration
      2024-07-11 12:06:45 ERROR User authentication failed
83
      2024-07-11 12:08:30 ERROR Unable to save file
84
85
86
87
     padma@PRIYA:~$ grep "ERROR" errorlogfile.txt | sort +1 -2 | cat > error logs.txt
 88
     padma@PRIYA:~$ cat error logs.txt
89
     2024-07-11 12:02:41 ERROR Database connection failed
 90
     2024-07-11 12:04:53 ERROR Failed to load configuration
      2024-07-11 12:06:45 ERROR User authentication failed
 91
 92
      2024-07-11 12:08:30 ERROR Unable to save file
 93
 94
     3)
95
     padma@PRIYA:~$ cat errorlogfile.txt
      2024-07-11 12:01:34 INFO User logged in
 96
97
     2024-07-11 12:02:41 ERROR Database connection failed
98
      2024-07-11 12:03:12 WARNING Disk space low
99
      2024-07-11 12:04:53 ERROR Failed to load configuration
     2024-07-11 12:05:01 INFO File uploaded successfully
100
101
      2024-07-11 12:06:45 ERROR User authentication failed
102
      2024-07-11 12:07:22 INFO System shutdown initiated
103
      2024-07-11 12:08:30 ERROR Unable to save file
104
     2024-07-11 12:09:19 WARNING High memory usage
105
      2024-07-11 12:10:10 INFO User logged out
106
107
108
     Q4.
109
110
     padma@PRIYA:~$ mkdir dept
111
     padma@PRIYA:~$ cd dept
112
     padma@PRIYA:~/dept$ mkdir fin pers mktg
113
     padma@PRIYA:~/dept$ cd fin
114
     padma@PRIYA:~/dept/fin$ mkdir exp inc
```

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Page 3 of 4
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```
115
      padma@PRIYA:~/dept/fin$ cd ..
      padma@PRIYA:~/dept$ cd pers
116
117
      padma@PRIYA:~/dept/pers$ mkdir admin pay
118
      padma@PRIYA:~/dept/pers$ cd ..
119
      padma@PRIYA:~/dept$ cd fin
120
      padma@PRIYA:~/dept/fin$ cd exp
121
      padma@PRIYA:~/dept/fin/exp$ touch ent.txt postage.txt
122
      padma@PRIYA:~/dept/fin/exp$ cd ..
123
      padma@PRIYA:~/dept/fin$ cd inc
124
      padma@PRIYA:~/dept/fin/inc$ touch fees.txt sales.txt
125
      padma@PRIYA:~/dept/fin/inc$ cd ..
126
      padma@PRIYA:~/dept/fin$ cd ..
      padma@PRIYA:~/dept$ cd pers
127
128
      padma@PRIYA:~/dept/pers$ cd admin
129
      padma@PRIYA:~/dept/pers/admin$ touch exp.txt
130
      padma@PRIYA:~/dept/pers/admin$ touch reco.txt
131
      padma@PRIYA:~/dept/pers/admin$ cd ..
132
      padma@PRIYA:~/dept/pers$ cd pay
133
      padma@PRIYA:~/dept/pers/pay$ touch ded.txt add.txt
134
      padma@PRIYA:~/dept/pers/pay$ cd
135
      padma@PRIYA:~$ cd dept
      padma@PRIYA:~/dept$ cd mktg
136
137
      padma@PRIYA:~/dept/mktg$ touch salesinfo.txt pur.txt
138
      padma@PRIYA:~/dept/mktg$ cd ...
139
      padma@PRIYA:~/dept$ tree
140
141
        - fin
142
            - exp
143
                -- ent.txt
              — postage.txt
144
145
             - inc
146
               -- fees.txt
147
                sales.txt
148
        - mktq
             - pur.txt
149
150
            - salesinfo.txt
151
        - pers
152
            - admin
153
              - exp.txt
              - reco.txt
154
155
             - pay
156
                 - add.txt
157
                ded.txt
158
      7 directories, 10 files
159
160
      1)
161
      padma@PRIYA:~$ cp dept/pers/pay/ded.txt dept/mktg/deduc.txt
162
      padma@PRIYA:~$ ln -s $(pwd)/dept/mktg/deduc dept/pers/admin/deduc link
163
164
      2)
165
      padma@PRIYA:~$ cp dept/mktg/salesinfo.txt dept//pers/pay/
      padma@PRIYA:~$ mv dept/pers/pay/salesinfo.txt dept/fin/exp/sinfo.txt
166
167
      padma@PRIYA:~$ cp dept/fin/exp/sinfo.txt dept/fin/
168
      padma@PRIYA:~$ rm dept/fin/exp/sinfo.txt
169
170
171
      padma@PRIYA:~$ mv dept/fin/exp/postage.txt dept/pers/pexp.txt
```

Wed Jul 17 12:31:11 2024

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172
      padma@PRIYA:~$ ln -s $(pwd)/dept/pers/pexp.txt dept/pers/pexp link
173
      padma@PRIYA:~$ rm dept/pers/pexp.txt
174
175
176
      4)
177
      padma@PRIYA:~$ tree dept
178
      dept
179
        -- fin
180
          --- exp
              L ent.txt
181
182
             - inc
183
               -- fees.txt
184
              └─ sales.txt
185
            sinfo.txt
186
        - mktg
          - deduc.txt
187
          pur.txt salesinfo.txt
188
189
190
         - pers
191
            - admin
192
               deduc link -> /home/padma/dept/mktg/deduc
193
                - exp.txt
              reco.txt
194
195
             - pay
196
              add.txt ded.txt
197
198
             - pexp link -> /home/padma/dept/pers/pexp.txt
199
200
      7 directories, 13 files
201
```