```
1
    question 1
 2
 3
   visalini@Visalini:~$ pwd
 4
   /home/visalini
    visalini@Visalini:~$ cd
 5
   visalini@Visalini:~$ mkdir v
 6
7
   visalini@Visalini:~$ nano 1.txt 2.txt 3.txt
    visalini@Visalini:~$ grep "bioinformatics" *.*
8
9
    1.txt:bioinformatics
10
    2.txt:hey bioinformatics
    3.txt:geroge bioinformatics
    visalini@Visalini:~$ grep "bioinformatics" *.*|wc -l
12
13
14
15
    Question 2
16
17
    visalini@Visalini:~$ pwd
18 / home/visalini
19 | visalini@Visalini:~$ cd
20
    visalini@Visalini:~$ ls
21
    1.txt error logs.txt
                                             ex1 vis
                                                          vish
    2.txt errorlogfile.txt
22
                                            snap visa
23
    3.txt errorlogfile.txt:SandBoxSafeFile sss
24
    dept
          errorlogfile.txt:Zone.Identifier v
25
   visalini@Visalini:~$ ls -l 2.txt
26
    -rw-r--r-- 1 visalini visalini 20 Jul 17 14:56 2.txt
27
    visalini@Visalini:~$ chmod 040 2.txt
28
    visalini@Visalini:~$ ls -1 2.txt
29
    ---r--- 1 visalini visalini 20 Jul 17 14:56 2.txt
30
31
    Question 3
32
33
   visalini@Visalini:~$ pwd
34
    /home/visalini
    visalini@Visalini:~$ cd
35
   visalini@Visalini:~$ ls
36
37
    1.txt error logs.txt
                                             ex1 vis
                                                          vish
    2.txt errorlogfile.txt
38
                                             snap visa
39
    3.txt errorlogfile.txt:SandBoxSafeFile sss visal
40
    dept errorlogfile.txt:Zone.Identifier v
    visalini@Visalini:~$ cat errorlogfile.txt
41
    2024-07-11 12:01:34 INFO User logged in
43
    2024-07-11 12:02:41 ERROR Database connection failed
44
    2024-07-11 12:03:12 WARNING Disk space low
    2024-07-11 12:04:53 ERROR Failed to load configuration
45
     2024-07-11 12:05:01 INFO File uploaded successfully
46
47
    2024-07-11 12:06:45 ERROR User authentication failed
48
    2024-07-11 12:07:22 INFO System shutdown initiated
49
     2024-07-11 12:08:30 ERROR Unable to save file
50
    2024-07-11 12:09:19 WARNING High memory usage
    2024-07-11 12:10:10 INFO User logged out
52
    visalini@Visalini:~$ grep "ERROR" errorlogfile.txt|sort +1 -2|cat>error logs
53
    .txt
54
    visalini@Visalini:~$ cat error logs.txt
    2024-07-11 12:02:41 ERROR Database connection failed
    2024-07-11 12:04:53 ERROR Failed to load configuration
56
57
     2024-07-11 12:06:45 ERROR User authentication failed
```

```
2024-07-11 12:08:30 ERROR Unable to save file
 59
 60
      QUESTION 4
 61
      visalini@Visalini:~$ mkdir dept
 62
 63
      visalini@Visalini:~$ cd dept
 64
      visalini@Visalini:~/dept$ mkdir fin pers mktq
      visalini@Visalini:~/dept$ cd fin
 65
 66
      visalini@Visalini:~/dept/fin$ mkdir exp inc
 67
      visalini@Visalini:~/dept/fin$ cd ..
      visalini@Visalini:~/dept$ cd pers
 68
      visalini@Visalini:~/dept/pers$ mkdir admin pay
 69
      visalini@Visalini:~/dept/pers$ cd ..
 70
 71
      visalini@Visalini:~/dept$ cd inc
 72
      -bash: cd: inc: No such file or directory
 73
      visalini@Visalini:~/dept$ cd fin
 74
      visalini@Visalini:~/dept/fin$ cd exp
75
      visalini@Visalini:~/dept/fin/exp$ touch ent.txt postage.txt
76
      visalini@Visalini:~/dept/fin/exp$ cd ..
 77
      visalini@Visalini:~/dept/fin$ cd inc
 78
      visalini@Visalini:~/dept/fin/inc$ touch fees.txt sales.txt
 79
      visalini@Visalini:~/dept/fin/inc$ cd ..
80
      visalini@Visalini:~/dept/fin$ cd ..
 81
      visalini@Visalini:~/dept$ cd pers
 82
      visalini@Visalini:~/dept/pers$ cd admin
 83
      visalini@Visalini:~/dept/pers/admin$ touch exp.txt reco.txt
      visalini@Visalini:~/dept/pers/admin$ cd ..
 84
 85
      visalini@Visalini:~/dept/pers$ cd pay
 86
      visalini@Visalini:~/dept/pers/pay$ touch ded.txt add.txt
 87
      visalini@Visalini:~/dept/pers/pay$ cd ..
 88
      visalini@Visalini:~/dept/pers$ cd ..
 89
      visalini@Visalini:~/dept$ cd mktg
 90
      visalini@Visalini:~/dept/mktg$ touch salesinfo.txt pur.txt
 91
      visalini@Visalini:~/dept/mktg$ cd ..
      visalini@Visalini:~/dept$ tree
 92
 93
      dept
 94
       -- fin
 95
           <u>—</u> ехр
 96
              - ent.txt
              └─ postage.txt
 97
            - inc
98
99
                 fees.txt
100
                 sales.txt
101
        - mktg
102
            pur.txt
          └── salesinfo.txt
103
104
        - pers
105
            - admin
106
               — exp.txt
107
              └─ reco.txt
108
            pay
              — auu.
— ded.txt
109
110
111
112
      7 directories, 10 files
113
      visalini@Visalini:~/dept$ cd ..
114
      visalini@Visalini:~$ cp dept/pers/pay/ded.txt dept/mktg/deduc.txt
```

147

```
visalini@Visalini:~$ ln -s $(pwd)/dept/mktg/deduc dept/pers/admin/deduc link
116
      visalini@Visalini:~$ cp dept/mktg/salesinfo.txt dept/pers/pay
117
      visalini@Visalini:~$ mv dept/mktg/salesinfo.txt dept/pers/pay.txt
118
      visalini@Visalini:~$ cp dept/fin/exp/sinfo.txt dep/fin/
119
      visalini@Visalini:~$ mv dept/fin/exp/sinfo.txt
120
      visalini@Visalini:~$ ln -s $(pwd)/dept/pers/pexp.txt dept/pers/pexp link
121
      visalini@Visalini:~$ rm dept/pers/pexp.txt
122
      visalini@Visalini:~$ tree dept
123
      dept
      ├── fin
124
125
          <u>—</u> ехр
            └─ ent.txt
126
127
            - inc
              - fees.txt
128
              L sales.txt
129
          └─ salesinfo.txt
130
131
        - mktq
132
          - deduc.txt
133
           - pur.txt
          pur.c...
salesinfo.txt
134
135
        - pers
136
          — admin
137
              deduc linl -> /home/ancy
              exp.txt reco.txt
138
139
140
             - pay
              - add.txt
141
              └─ ded.txt
142
143
            - pexp link -> /home/ancy
144
      9 directories, 11 files
145
146
```